



15 Nov 1963

The Missouri Miner, November 15, 1963

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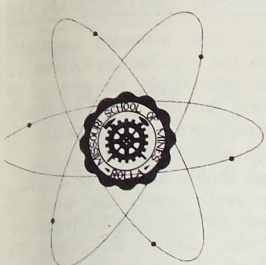
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The Missouri MINER

MISSOURI SCHOOL OF MINES AND METALLURGY

VOLUME 50

FRIDAY, NOVEMBER 15, 1963

NUMBER 9

Editorial Comments

by Goldwater
and Lippmann

PAGE 2

Big 8 Registrars Visit Campuses Of MU Branches

The Annual Meeting of Big Eight Registrars and Business Officers Group was held October 27 and 28, 1963, at MSM's Student Union Building. The purpose of the annual meeting is to discuss problems of a nature concerning admissions, registration and management. In attendance this year were representatives of the University of Kansas, Missouri University — Kansas City and St. Louis branches, the host Missouri School of Mines, Nebraska University, Oklahoma University, and Oklahoma State University.

Principal speaker for the October 28 session was Dr. Merl Baker, Dean of the School of Mines and Metallurgy. After leaving Rolla, the group had a luncheon Tuesday, October 29 with Dr. Elmer Ellis, President of the University of Missouri. The luncheon was at the Columbia campus and the principal speaker was Mr. Charles Trigg, Director of the Missouri State Budget Office, Jefferson City.

Tours of the Missouri University System continued on Tuesday as the group toured the facilities of the University of Missouri at Kansas City.

MSM was represented at the meeting by: Mr. Robert B. Lewis, Registrar; Mr. Lauren A. Peterson, Assistant Registrar; Mr. Emmet Klinkerman, Business Officer; and Mr. Carroll Pauls-meyer, Business Officer.

Interfraternity Council and the Student Council. College counseling will be held in the Student Union by members of the School's faculty. The guided tours and counseling will end at 3:00 p.m.

Most of the School's Departments of instruction will be open for inspection by the visitors, and displays and information concerning the academic departments will be available. Engineering curricula is offered in the following fields at MSM: metallurgy, ceramics, nuclear, geological, chemical, civil, electrical, mechanical, mining and petroleum; and applied science degree programs are offered in geology, chemistry, applied mathematics, physics and petroleum refining. Other academic areas include applied mechanics and humanities. Integral parts of modern scientific instruction on the campus include the nuclear reactor and the computer center. The Department of Military Science sponsors the largest U. S. Army Corps of Engineers ROTC

unit of any college in the nation. Special displays will be provided by the ROTC.

In addition to information about the academic programs at the School, there will also be material available about costs, housing and extracurricular and social activities.

Possibilities of New National Fraternity Here

A representative of a national fraternity visited MSM recently to determine the feasibility of establishing a chapter here. He was impressed with the possibilities, particularly by the receptive attitude of the administration, and by the apparent need for several more fraternities to help solve the ever-increasing housing problem.

A Field Secretary of the fraternity will visit the campus later in the semester, and during several days he will talk to interested students. All of the students who help to organize the fraternity will be initiated without the customary pledge-training period, and thus they will become "founders" of the chapter.

Founders have the opportunity to establish policies for the conduct of their fraternity, and in this way to avoid such policies of existing fraternities as they may find objectionable.

Any students who are interested in meeting with the representative of the new fraternity when he comes are asked to leave their names with Prof. Karl Moulder, Room 104 Rolla Building.

Dr. Merl Baker, has announced that MSM will hold its annual Engineers Day on Saturday, November 16. Dr. Baker said that the purpose of the annual event is to acquaint high school and junior college students interested in science and engineering with the various phases of the school including the academic areas as well as the administrative operations.

The event is an open house and not only interested students, their parents and high school or junior college counselors, but also anyone interested in space age training is encouraged to visit the campus. Engineers Day annually draws visitors from a several state area which centers around Missouri. The event is slated to begin at 8:00 a. m., and visitors are asked to register in the Student Union Building. From the Student Union Building, groups will be taken on conducted tours of the campus by guides furnished by two student organizations, the

name of the product. According to Lou Gottlieb, leader of the "Limelites," it would not be improbable to one day find a "Hootenanny Deodorant - for the man who gives a hoot."

The craze which is sweeping the country had its origin several years ago when three young men walked into a campus hangout and played guitars and banjos for pretzels and beer. The three have since come to be known (and dissolved, and reorganized) as the

Folk songs, comedy, and group participation were prominent during last Monday's general lecture, featuring the "Gaslight Singers," a folk-singing group composed of three young men and an attractive young lady. The quartet rendered two spirited performances between seven and ten-thirty, mixing folk music with a generous portion of humor, suggestive and otherwise. Interwoven into the act were songs ranging from spirituals to a spoof of Dr. Freud — from poig-

nant love ballads to a rock 'n roll version of Robert Burns' poem "A Red Rose."

Of the humorous material performed by this group, the take-off on "Big Bad John" was probably the most outstanding. In the "Gaslight Singers" version, Big Bad John, a rough coal miner, is in reality "Big Bad Bruce," an effeminate hair dresser from New York.

The large crowd of Miners turning out for the general lecture is indicative of the enthusiasm which folk and folk-oriented music has caused throughout the country. Hootenannies, gatherings of folk singers and folk-singing groups, occur frequently upon the college campus and are in demand by the population as a whole. In fact, companies, in order to sell their wares, attach the word "Hootenanny" to the brand

"Kingston Trio," and their popular brand of folk music soon caught on around the college concert circuit.

Why did folk music come into (Continued on Page 6)

Faculty Decides Changes In Mathematics Program

In an attempt to improve MSM's over-all mathematics program, that department has decided, along with the entire faculty, to effect two changes in the near future.

Math 5, which consists of Algebra and Trigonometry, will be dropped from the general curricula. Furthermore, Math 21, Analytic Geometry and Calculus

II, is to be changed from a four hour to a five hour course.

With the continued improvement of high school mathematics, more students each year come to MSM already prepared in algebra and trigonometry. The new changes will eliminate repetition in course material for these students and allow them to advance much faster.

Engineer's Day to Acquaint Science Students With Campus

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cept of economics, management, foreign languages, sociology, psychology, and most importantly English. As more resources are available, offerings can be expanded in music, philosophy, and literature.

This greater emphasis that should be put on the humanities and social studies courses means selecting those courses which will be appropriate to the engineering curriculum, and having them taught with the same degree of excellence as a basic science course.

The following ideas are the reasons Dean Baker feels the humanities department needs an expansion to accommodate the needs of an engineer. Because the engineer is a professional man, he will be seen before the public many times and will be responsible for many public projects. In order to be of proper status, the engineer must not only have a strong fundamental knowledge of the basic sciences, but also have a good knowledge of the many courses concerning humanities.

It is of the greatest importance to an engineer to have a good con-

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All entries must be turned in by this Monday evening, November

18. Let's make this year's tournament the biggest and best in the history of the annual IFC Bridge Tournament.

The tournament will be held next Wednesday evening, November 20, beginning at 6:30 p.m. in the Ballroom of the Student Union.

With the increasing interest in the annual affair it is hoped that all fraternities on campus will be participating this year in conquest of the trophy. The trophy for the Annual IFC Bridge Tournament is a traveling trophy. It was won last year by the team from Phi Kappa Theta. This is a very impressive trophy and would hold a place of honor, as does any traveling trophy, on your trophy shelf.

IFC Bridge Tournament Slated for November 20

Has your house picked the four most talented bridge players to represent you in the Annual IFC Bridge Tournament?

The tournament will be held next Wednesday evening, November 20, beginning at 6:30 p.m. in the Ballroom of the Student Union.

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NOTICE!

The last day to drop a course without getting a mid grade is **Sat. Nov. 16, 12 Noon**. The last day to drop a course without getting a final grade is **Nov. 27**.

Miner Editorials

LIPPMANN — OUR HESITANT CONGRESS

This is one of those moments when there is reason to wonder whether the congressional system as it now operates is not a grave danger to the Republic. There are two great measures before Congress, and in all probability Senator Goldwater was right when he said the other day that "the President has to make up his mind whether he wants the civil rights bill or a tax cut, because he cannot get them both."

This situation is a reflection on the Congress. For the truth is that the two measures are not competitive, but complementary. If the tax bill can do what its advocates believe it can do, that is to say stimulate business and reduce unemployment, it will reduce some of the pressures which are making it so difficult for the leaders of the Negro people to continue to be moderate, non-violent, patient and reasonable.

The civil rights bill promises the Negroes the chance to vote, better schooling and an end to humiliation in public accommodations. But the tax bill promises the Negroes jobs. They need them. The rate of unemployment among Negroes is a little more than twice as great as among the whites.

The Negroes, therefore, have an acute interest in a measure that promises to

overcome the sluggishness of the economy. Today, for example, the Negro rate of unemployment is over 11 per cent; during 1951-53, when the economy was booming, Negro unemployment was less than 5 per cent.

Anyone who is serious about dealing with the Negroes' grievances must, therefore, be distressed to find that he has to choose between the tax bill and the civil rights bill. A competent Congress, which was equal to the realities of our time, would see that the two measures are closely related and would act on them accordingly.

But there is something more in all this than the lack of serious and realistic understanding of what is at stake. This Congress has gone further than any other within memory to replace debate and decision by delay and stultification. The President first announced his plan to seek a reduction of taxes in order to stimulate the economy on Aug. 3, 1962. That was over a year ago. A tax bill passed the House last week, but the Senate has not even begun to hold hearings.

I do not see how a modern government can be conducted successfully if on a major issue, such as fiscal policy, the Executive is refused for more than a year a debate and a decision. If Congress agrees

with Senator Byrd, it ought to debate and then defeat the tax bill. What is becoming alarming and intolerable is a Congress which will smother and stultify rather than debate and decide.

GOLDWATER — ON THE WHEAT

Is it possible for the United States to benefit from the proposed sale of 150 million bushels of wheat to Communist Russia?

Yes, it is, and there seems to be general agreement on both sides of the aisle in the House and in the Senate that we could (1) relieve the burden now imposed on the American taxpayer by the huge costs of storing surplus wheat, and (2) make some small headway in cutting into our balance of payment deficits through such a transaction.

But if these benefits are to accrue to us, the transaction would have to be contingent upon several conditions.

First, Khrushchev should be made to give up his Cuban base for hemispheric subversion, restore free access to residents of Berlin and tear down the wall.

Second, Russia should be made to pay the full U.S. price for the wheat so that our taxpayers who have subsidized the wheat at upwards of 50 cents a bushel, do not have to pick up part of Khrushchev's tab.

Third, the American people should be told, honestly and openly, whether government officials using assumed names in order to conceal the administration's in-

terest in the deal, attended negotiating sessions with the Russians in Ottawa and whether the sale would be part of the price the New Frontier agreed to pay for Russian "acceptance" of the partial nuclear test-ban agreement.

Fourth, we should have some assurance that Russia really needs the wheat for food, and not for hoarding or transshipment to Cuba, North Viet-Nam, Red China and North Korea, in view of reports by secretary of Agriculture Orville Freeman and other government "experts" who recently returned from inspection trips to Russia and predicted a bumper wheat crop for the Soviet Union this year.

Fifth, we should be certain that the wheat we plan to sell to Russia is not needed by free world nations, who also suffered severe crop shortfalls this year.

Sixth, we should demand payment in gold and not, by way of "accommodation" and in violation of U.S. laws extended credit to a nation which still is in default and refuses to pay World War II lend-lease debts to us.

Obviously, with these conditions met, the sale indeed would constitute something of a propaganda victory for us as well as accrue to our benefit financially. It could prove to the Russian people and the world that under our system of government, despite some of the socialistic controls which have been placed upon our farmers, there is an abundance of food.

How do you stand, sir?

The Reviewer's Stand

Stories about the private lives of Hollywood stars, especially where matters of a scandalous nature are involved have always intrigued many movie-goers, whether it be in real newspaper headlines or in the fictional form of such films as "A Star is Born" and "Sunset Boulevard." In that tradition of exposing the seamier side of living in the film capital comes now "What Ever Happened to Baby Jane?" in which alcoholism, insanity, physical violence and murder all have a place in a tale about two sisters, movie stars of yesterday, living alone in a house in suburban Hollywood with only their hate for each other and their dreams of the past to

occupy their time.

As an added fillip, the story, which comes from a novel by Henry Farrell, is cast in the form of a tale of suspense with one of the sisters imprisoning in their home the other, who is a helpless cripple confined to a wheel chair.

Elements of Hollywood "gossip" are strong draws in them-

selves but "Baby Jane" has even a more potent trump card. This lies in the casting of Bette Davis and Joan Crawford in the leading roles. These two have become legendary movie queens in their own time and their first appearance together in a film is one of the casting triumphs of all film history.

Miss Davis portrays "Baby Jane", the former child star who failed to make the grade as an adult actress, and Miss Crawford is her sister, a successful film star whose career in the 30's was cut short when she was crippled for life in a car accident that rumor has it her jealous sister was responsible for. Several scenes before

the credits come on reveal these facts and the story proper begins in the present; slowly moving from drama into melodrama as it becomes apparent the whole point and purpose of the film will be to answer the question of whether or not Miss Davis will carry on her diabolical plot to do away with Miss Crawford.

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MISSOURI SCHOOL OF MINES AND METALLURGY



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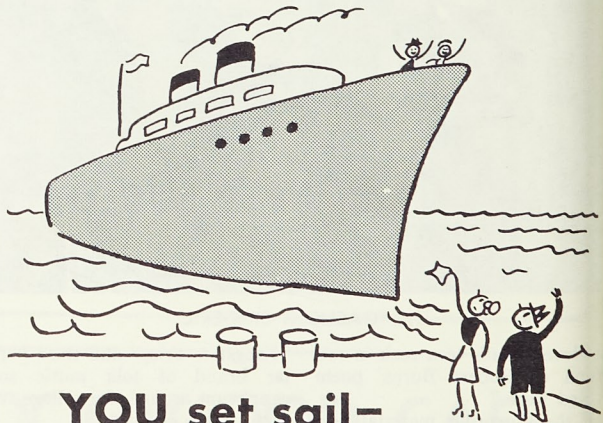
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BLUE KEY

Birth of a National Service Fraternity

The following account is the first in a series of four articles to familiarize the student body with Blue Key National Honor Fraternity. Blue Key membership is the ultimate accomplishment and honor on the MSM campus, and all students should seek it as their goal.

Blue Key National Honor Fraternity is the result of Dean Bert Riley's faith in the sincerity and ability of college men. The fraternity had its foundation first in his idea that real American college and university student leaders are God-fearing, law-abiding citizens who believe that worthwhile progress can best be achieved through the orderly processes of evolution, not revolution; second, in his belief that students are men and must be treated as such; third, that they are men willing to work with their fellow-students, willing to cooperate with faculty, and capable of advancing ideas and creating the right attitudes which will do much to improve student life and welfare.

Blue Key had its beginning at the University of Florida in 1924. Dean Riley organized the first group to meet an emergency. He had no idea of forming a national fraternity. The purpose came first, the organization later.

Dad's Day and Homecoming, in 1924, was expected to exceed in attendance all former gatherings at the University of Florida, because the completion of several hundred miles of new hard-surfaced roads gave people from all parts of the state better opportunity for transportation than ever before. Every campus organization was making plans to entertain the visitors, and it looked as though confusion would result.

Dr. A. A. Murphree, then president of the University of Florida, called on Dean Riley to coordinate all of the plans for the entertainment of guests on the campus.

Dean Riley selected twenty-five outstanding student leaders, who by election or attainment held places of prominence and confidence in the student body. To each man was assigned the duty to look after some particular phase of the program, to report all activities in his field of interest, to see that there was no overlapping of work, and to be sure that nothing was left undone.

This committee met regularly at round table. Homecoming, to the minutest detail, went off smoothly and well.

After the success of this attempt, Dean Riley requested this committee to meet with him regularly to discuss other ways of improving student life and there was a noticeable increase of interest on the campus in all worthwhile student activities. This group, organized by Dean Riley, was forthwith named Blue Key Honor Society (later Fraternity) by its founder.

Because all of the men were active, the only possible time of meeting was at lunch. Here, then, was a group made up of student leaders, inadvertently organized very much like Rotary, functioning in university student life as service clubs function in civic life.

SEMINAR Relativity Psychiatry

The seminar investigating the recent revolutions in physics and in psychiatry will begin Tuesday, November 19, at 7:00 p.m. in room 110 of the Physics Building. The first session will deal with Special Relativity Theory and Existential Psychiatry, and will be introduced by one of the co-leaders, Jack Rivers. The introduction will consist of a brief historical sketch of the significant changes in perspective in each of these fields. This seminar is presented for faculty and graduate students, as well as undergraduates. Reading material will be available at the first meeting this coming Tuesday, 7:00 p.m., Room 110, Physics Bldg.

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NEWS of the Week

Sahara: Fighting between Algerian and Moroccan troops continued in the desert that marks the disputed boundary of the two countries. Each side again blamed the other for starting the conflict, and both disregarded the cease-fire agreement signed last week.

Viet-Nam: The revolutionary junta that overthrew the Diem government last week began forming itself into a government. Hundreds of freed prisoners told of torture and mistreatment at the hands of Diem's soldiers. The new national leaders have pledged freedom of speech, press, religion, and politics, as well as a constitutional government. In Saigon the citizens celebrated by dancing the twist and tango and by flocking to bars and night clubs as if to snub the old morality laws of Madame Nhu which had outlawed such things.

Berlin: Soviet border guards held a U. S. convoy for 42 hours before allowing it to enter the divided city. This was the third such incident to occur in the last two months. The U. S. troops upheld a firm position, however in demanding their rights of free access over the autoban. A study is under way to determine the causes of the Soviet blocks.

Japan: Japan suffered one of its darkest days since World War II as two separate disasters claimed the lives of at least 313 persons. About 142 were killed

UPTOWN THEATRE MOVIES IN CINEMASCOPE

Fri., Sat. Nov. 15-16

'Sword of the Conqueror'

Jack Palance & Eleonora Rossi Drago

Sun., Mon., Tues. Nov. 17-19
Sunday Continuous from 1 p.m.

'Wives and Lovers'

Janet Leigh & Van Johnson
Wed., Thurs., Fri., Sat. Nov. 20-23

'Beach Party'

Frankie Avalon & Annette Funicello

RITZ THEATRE MOVIES ON WIDE SCREEN

Fri., Sat. Nov. 15-16
Saturday Continuous from 1 p.m.

'Island of Love'

Robert Preston & Georgia Moll
—PLUS—

'Young Jesse James'

Ray Stricklyn & Merry Anders
Sun., Mon., Tues. Nov. 17-19
Sunday Continuous from 1 p.m.

'Tammy and the Doctor'

Sandra Dee & Peter Fonda
—PLUS—

'I Like Money'

Peter Sellers & Nadia Gray
Wed., Thurs. Nov. 20-21

'Whatever Happened to Baby Jane?'

Bette Davis & Joan Crawford
—PLUS—

'Foxhole in Cairo'

James Robertson Justice & Gloria Mestres

and a greater number injured as two passenger trains traveling in opposite directions piled into a derailed freight near Yokohama. At almost the same time a blast in one of the country's largest coal mines took the lives of an unknown number of workers. At least 171 are recorded dead with over 650 still trapped below and unaccounted for.

New York: Four bandits dressed in police uniforms and Halloween masks stopped a diamond district pickup truck and escaped with over \$1,000,000 worth of gems in the biggest jewel robbery in New York history. Police announced later that part of the loot had been recovered, but the job was obviously professional and very well planned.



On Campus with Max Shulman

(Author of "Rally Round the Flag, Boys!" and "Barefoot Boy With Cheek.")

SHOULD AULD ACQUAINTANCE AND JAZZ LIKE THAT

I am now an elderly gentleman, full of years and aches, but my thoughts keep ever turning to my undergraduate days. This is called "arrested development."

But I cannot stop the healing tide of nostalgia that washes over me as I recall those golden campus days, those ivy-covered buildings (actually, at my college, there was only ivy: no bricks), those pulse-tingling lectures on John Dryden and Cotton Mather, the many friends I made, the many deans I bit.

I know some of you are already dreading the day when you graduate and lose touch with all your merry classmates. It is my pleasant task today to assure you that it need not be so; all you have to do is join the Alumni Association and every year you will receive a bright, newsy, chatty bulletin, chock-full of tidings about your old buddies.

Oh, what a red-letter day it is at my house, the day the Alumni Bulletin arrives! I cancel all my engagements, take the phone off the hook, dismiss my resident osteopath, put the cheetah outside, and settle down for an evening of pure pleasure with the Bulletin and (need I add?) a good supply of Marlboro Cigarettes.



Whenever I am having fun, a Marlboro makes the fun even more fun. That filter, that flavor, that yielding soft pack, that firm Flip Top box, never fails to heighten my pleasure whether I am playing Double Canfield or watching the radio or knitting an afghan or enjoying any other diverting pursuit you might name—except, of course, spear fishing. But then, how much spear fishing does one do in Clovis, New Mexico, where I live?

But I digress. Let us return to my Alumni Bulletin and the fascinating news about my old friends and classmates. I quote from the current issue:

"Well, fellow alums, it certainly has been a wing-dinger of a year for us old grads! Remember Mildred Cheddar and Harry Camembert, those crazy kids who always held hands in Econ II? Well, they're married now and living in Clovis, New Mexico, where Harry rents spear-fishing equipment, and Mildred has just given birth to a lovely 28-pound daughter, her second in four months. Nice going, Mildred and Harry!

"Remember Jethro Brie, the man we voted most likely to succeed? Well, old Jethro is still gathering laurels! Last week he was voted 'Motorman of the Year' by his fellow workers in the Duluth streetcar system. 'I owe it all to my brakeman,' said Jethro in a characteristically modest acceptance speech. Same old Jethro!

"Probably the most glamorous time had by any of us old alums was had by Francis Macomber last year. He went on a big game hunting safari all the way to Africa! We received many interesting post cards from Francis until he was, alas, accidentally shot and killed by his wife and white hunter. Tough luck, Francis!

"Wilametta 'Deadeye' Macomber, widow of the late beloved Francis Macomber, was married yesterday to Fred 'Suershot' Sigafos, white hunter, in a simple double-ring ceremony in Nairobi. Many happy returns, Wilametta and Fred!

"Well, alums, that just about wraps it up for this year. Buy bonds!"

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* * *

Old grads, new grads, undergrads, and non-grads all agree: that good Richmond tobacco recipe, that clean Selectrate filter, have turned all fifty states of the Union into Marlboro Country. Won't you join the throng?

Phi Eta Sigma: Encouraging Scholarship

The MSM chapter of Phi Eta Sigma was formally installed on September 28, 1963. Phi Eta Sigma is a freshman honor society which tries to promote a higher standard of learning and to encourage high scholastic attainment among the freshmen men at MSM.

Any male student becomes eligible for membership in this Chapter by earning a grade point average of not less than 3.50 in his first semester. A student also becomes eligible by maintaining a cumulative grade point average of not less than 3.50 for his freshman year. In either case he may not have a grade less than a B.

Ellis Gives 2 Million To MSM Space Center

The role of MSM in the University of Missouri Space Science Research Center, made possible through funds appropriated by the legislature in its last session, has been recently defined. This will be the establishment of a Materials Science Research Center on the Rolla Campus. The center will investigate the crystal and microstructure of metallic, polymer and ceramic materials, as these relate to physical and chemical behavior in environments varying from those on earth to the extremes encountered in space.

This will be a poly-disciplinary program and the direction will be provided initially by the Departments of Ceramic Engineering, Chemical Engineering and Chemistry, Metallurgical Engineering and Physics.

To date President of the University, Elmer Ellis, has given tentative approval to a requested building fund, which is to be allocated from the legislative grant of \$2,000,000, for the construction of a building on the Rolla Campus to house the activity and for the purchase of fixed, capital items of

equipment. Preliminary floor plans have been prepared for the facility and these will shortly be coordinated with an architect, who will be appointed by the Board of Curators. Part of the \$250,000 authorized by the legislature for personnel and equipment during the current biennium for the University's Space Science Research Center has been allocated to MSM and potential personnel for the Senior Staff positions in the facility are currently being interviewed. At present, it is planned that some of the Senior Staff members may be employed as early as February of 1964 to participate in the planning of the facility and to initiate preliminary research activities. The Campus Planning Committee for MSM is presently making a study to determine what available building space on the campus is best suited to the needs of the facility, and it might be estimated at this time that the facility will be ready for occupancy by January 1966. In

the interim, action will be taken to seek funds, primarily as grants from industry and Federal agencies, to support research with equipment currently available or to be purchased for these projects and later installed in the facility.

Dean Baker has reported to the faculty that he anticipates the Material Science Research Center will be but the first of two or more poly-disciplinary research facilities to be developed at MSM in the future.

S. L. AIME Chap. Hears Zenor on Sol'n Tectonics

Dr. Hughes M. Zenor, Professor of Mining Engineering at MSM, presented a report on *Solution Tectonics* to the meeting of the St. Louis Section of the American Institute of Mining,

Metallurgical and Petroleum Engineers. The meeting took place in St. Louis on Friday, November 8th.

Professor Zenor received his Ph. D. in physics from Rice Institute in 1936. Since 1955 he has taught Geophysics, first at the University of Tulsa, and now at MSM. He has been associated with Humble Oil and Refining Company, Pan American, Sinclair, Douglas Aircraft, Sperry-Gyroscopic, Heiland Research, Lane Wells and NASA.

The subject of his presentation was the result of three years research on the theory that subsurface solutions transport sufficient materials from the oceans to the continents to replace that washed to sea by our rivers. These solutions form mountains and ocean deeps, highlands, and basins, and are of major importance in a study of oil accumulation and mineral deposition.

New Additions, Course Planned To Boost Interest in Reactor

Since the completion of the nuclear reactor on the MSM campus, the student body has heard little about it. Due in part to an apparent lack of activity there, the initial interest shown by the students has dwindled.

This year Dr. Edwards, an MSM graduate, has been made head of the reactor staff. Under his direction, plans have been laid to broaden the scope of the reactor's use. First on the agenda is a reactor course — Physics 374 — to be taught next semester on the senior-graduate level. A class of about ten students will be instructed by Dr. Edwards on basic reactor experimentation. The staff is hopeful that the initial course will generate enough interest to allow formation of more classes in subsequent semesters.

Projects

At present, two students — one graduate and one undergraduate — are using the reactor in work on special problems. For the remainder of the first semester,

several projects are planned. These projects will be conducted by Dr. R. Gerson of the Physics Dept., Dr. H. P. Leighly of the Metallurgy Dept., and Maynard Arment, a graduate student under Dr. D. S. Eppelsheimer (Metallurgy Dept.). Another project was recently completed by Dr. W. Bosch of the Chemistry Dept.

Additions

Scheduled to arrive before the first of January is a multichannel analyzer (a piece of accounting equipment). The analyzer, according to Dr. Edwards, will greatly extend the reactor's present capabilities.

Directors

MSM's Advisory Committee has charge of the reactor. Its members are: Dr. Eppelsheimer, Dr. H. Q. Fuller, Dr. T. J. Planje, Dr. W. H. Webb, Dr. A. J. Miles, and Dr. Edwards. Dr. Edwards reports to the committee which in turn relays the reports with recommendations to Dean Merl Baker.

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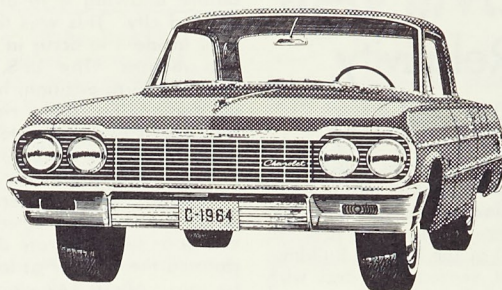
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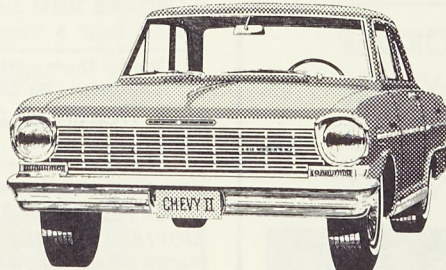
JET-SMOOTH LUXURY CHEVROLET 15 models. Four series. One brand-new series—the Impala Super Sports. More luxury, too. Even the Biscaynes are now fully carpeted. There's seven different engines' worth of power—140 hp to 425 hp (optional at extra cost). It's a matter of knowing if you'd like your luxury on the gentle side or on the other side.

Model shown: Impala Sport Coupe



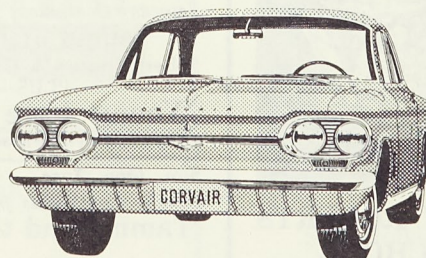
TOTALLY NEW CHEVELLE! 11 models. Three series. An entirely new line of cars sized a foot shorter than the big cars, so you get the handling ease of smaller cars. But don't sell it short! Chevelle gives you generous passenger and luggage room. Engine choice: 120 to extra-cost 220 hp.

Model shown: Malibu Sport Coupe



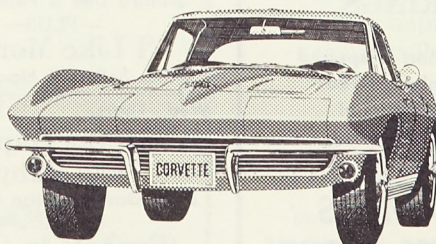
NEW CHEVY II Six models. Two series—Nova and Chevy II 100. Both now offer an extra-cost 195-hp V8 or a 155-hp six, to give you more Chevy II power than ever before. Match this added power with Chevy II thrift, and you can see why Chevy II will be harder than ever to keep up with this year.

Model shown: Nova 2-Door Sedan



NEW CORVAIR Seven models in four series. Two Greenbriers. A new standard 95-hp engine (nearly 19% livelier). An extra-cost 110-hp engine on all Corvairs and a 150-hp Turbo-charged engine in the Monza Spyder. Styling? Never been cleaner. Interior? Never been brighter. Fun to drive? Never been more so.

Model shown: Monza Club Coupe



NEW CORVETTE Two models—the Sport Coupe with a new one-piece rear window plus improved interior ventilation, and the dashing Sting Ray Convertible. Both boast smoother rides, improved sound insulation. Both go with four big V8's, including a new extra-cost 375-hp engine with Fuel Injection.

Model shown: Sport Coupe

Ask about a SMILE-MILE Ride and the Chevrolet Song Book at your Chevrolet dealer's

SAE Looking to Be Tops in National

The student branch of the Society of Automotive Engineers has started another year of activities, which will once again make the SAE one of the most active professional societies on campus.

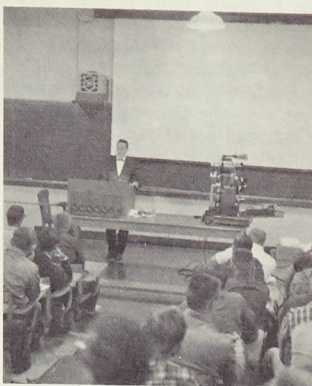
At the November meeting we were fortunate in having a demonstration of automotive honing

devices. The demonstration, with accompanying slides, was given by the Sunnen Products Co., of St. Louis. Previously this semester, meetings have been planned around speakers and films. In October Sgt. Gene Tinnen, safety officer of Troop I, Missouri Highway Patrol, showed a film and spoke on automotive crash research. Also, a film on the Fire Bird III was the high light of the September meeting. Future meetings have been planned with speakers from the brake division of Wagner Electric, and from Caterpillar Tractor Co.

The first field trip of the year was taken this past weekend. It was an interesting and enjoyable tour of the Chevrolet-Corvette Assembly plant, in St. Louis. At present a trip is being planned to the Frisco Railroad Shops, in Springfield, Mo.

SAE members have also taken

an active part in attendance at meetings of the St. Louis Section, held each month. Here you can talk with men in industry, as well as observe interesting programs, such as the tour of McDonnell Aircraft Corp. this past September.



Sunnen Honer Demonstration.

Presently the SAE is in the middle of a membership drive, which should make our student branch the largest in the nation. We are also on the way to winning

another national award, this one for being the most active student branch.

SAE is comprised of members from all branches of engineering,

so if you have an interest in the automotive industry come to the next meeting, and become part of an active professional organization.

FULLER JEWELRY

THE FINEST IN DIAMONDS

AND

JEWELRY

— MSM CLASS RINGS —

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Greek News

Sigma Nu

Sigma Nu finished its intramural football season in first place. After beating Kappa Sigma 28-26 in the first game of finals, Sigma Nu was looking forward to meeting Triangle for the championship.

The first game of finals, with Kappa Sigma, was an evenly-matched, hard fought game, each team scoring four touchdowns, but the two point difference in score came from the toe of Bill Falke who successfully completed four field goal attempts, while Kappa Sig completed only two. This set up the championship game with Triangle.

The opening half of the championship game was a good one for Sigma Nu, who was leading 13-0 at halftime, but the second half found Triangle fighting its way back to a 20-19 lead with only 25 seconds to go. With the ball in their possession, Sigma Nu ran a thirty yard pass play from Gary Shippy to Ron Hugerich to set up the next play with Shippy running eleven yards for the final touchdown. The point after was kicked by Bill Falke and the score remained 26-20, giving Sigma Nu the intramural football trophy.

Congratulations are also in order to John Ruppert who recently became pinned to Glenna Thorpe of Rolla.

Theta Chi

In its first semester of existence, Epsilon Chi Chapter of Theta Chi Fraternity has made great progress, beginning this semester with a pledge class of twenty-three men, larger than any other previous pledge class. This semester three new actives have been initiated: Ron Laupp, George Ambrose, and Keith McDonall, and three charter members: John Banks, Harvey Keymer, and Ed Horel.

To celebrate Columbus Day, October 12, brother Ron Bowser and his wife Daryl became the proud parents of a daughter, Laurie Ann.

The brothers should also be congratulated for their efforts in winning the first leg of the APO Blood Drive by a margin of nearly 30 per cent.

A great effort was put forth by actives and pledges alike in constructing our Homecoming decorations, and we are also very proud of our Homecoming Queen, Miss Joy Webb. After the Homecoming festivities, brother Banks announced that he has become lovaliered to Miss Jill Smith, a student of SEMS, Cape Girardeau, Missouri.

THE BELL TELEPHONE COMPANIES

SALUTE: KEN McINTYRE

Ken McIntyre (A.B., 1957) guides the activities of more than 100 telephone people in St. Louis. He is supervising service foreman in one of the city's largest districts, an area that counts more than 100,000 telephones. Ken is responsible for the installation and maintenance of all this telephone equipment.

Diversity of assignments in the Plant Department of Southwestern Bell marked Ken for his present position. His

talents came to the fore when he helped implement the company's cable pressurization program. He soon became an expert in this field, which is literally "air conditioning" lines so that leaks can be quickly spotted and repaired.

Ken McIntyre, like other young men, 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



MSM is Only ECPD School Offering Nuclear Engr.

The Department of Metallurgical Engineering of MSM conducts, as a part of its regular instructional curriculum in undergraduate nuclear engineering, training in the "bomb reduction process" for the production of uranium. According to Dr. Daniel S. Eppelsheimer, Chairman of the Metallurgy Department, MSM is the only ECPD accredited undergraduate School in the nation offering a Nuclear Engineering option in its Metallurgy curriculum concerned with Nuclear Engineering Materials.

The "reduction process" is a laboratory scale process identical to larger commercial production processes used by several companies and identical to a process in use at the Argonne National Laboratory. The process actually produces uranium for nuclear reactors and for other purposes. Commercially, this is known as the "bomb reduction process." So far as is known MSM is the only school operating this process on an instructional basis, and equipment and supplies for this endeavor have been made possible by a grant from the Atomic Energy Commission.

R. L. Wright, Instructor in Metallurgical Engineering in whose classes the processes are taught, describes the process as follows. A mixture of uranium tetrafluoride and finely divided magnesium powder is heated to about 600 degrees Centigrade in a graphite crucible, and at this temperature a reaction begins, proceeding at a rapid rate until the entire contents reach a temperature of approximately 1500 degrees Centigrade. This is above the melting point of all the components, and the molten uranium, heavier than any of the other contents settles at the bottom. The slag and other impurities go to the top of the molten mixture and

when cooled, the entire contents solidify again, but in separated form. The pure uranium is then removed from the crucible very easily.

The uranium produced in this training process is called "depleted uranium," containing very little of the radioactive isotope U235 used in larger scale operations, and is therefore completely safe to handle. The handling of nuclear materials has become so commonplace that safety methods have been completely perfected in most industrial processes, Wright said.

FOLK MUSIC

(Continued From Page 1)

such popularity at this time, if it had always been with us and singers such as Burl Ives, Pete Seeger, the Weavers, or Harry Belafonte had been around for many years previous to the folk music breakthrough. So why did it happen now? Largely because the aver-

age college student in the United States was sick of the rock 'n roll which was constantly played on the radio. His only other alternatives in the field of music were jazz and the classics. Each of these required an understanding for thorough enjoyment. When the Kingston Trio's commercialized brand of folk music appeared on the market, it was eagerly accepted by the searching college students. This was a type of music that everyone can sing and understand, and yet it says something, unlike the often assinine lyrics of rock 'n roll.

Also, folk music is music in which anyone can participate. It is not "spectator" music. If a person cannot sing, he claps his hands. Any person with enough interest learns to play an instrument and in a number of months is leading his own folk-singing group.

As we stated earlier, the folk music that the "Kingston Trio" brought forth was commercialized, or "tailor-made" for public consumption. Very few people who are on the folk music bandwagon today would be very impressed upon hearing an authentic folk

song crooned by a singer hailing from the hills of Kentucky. The public wants the "pretty" type of music of the "Kingston Trio," "Peter, Paul and Mary," "Chad Mitchell Trio." This wide gap between the "authentic" and the commercialized brand of folk music has created a bitter controversy between the two groups which indulge in folk music; the money making "college boy" groups that without their methods of singing, folk music would still be in the hills. Most people, however, don't give a damn; they just sing folk songs and go about their business.

How long will this craze over folk music endure? It can be safely stated that this abundant interest is nothing more than a fad, as were hula-hoops, the jitter bug, the West Coast, et cetera. In the future, the interest in folk music will probably subside and the country will again be swept with a new trend in music.

For those who will remain dedicated to the folk song, audiences will again become the small, genuinely interested, and lesser paying groups they were before the boom.

Indian Students Hope to Create Better Relations

The India Association will proudly present an award winning technicolor movie on India, "Zhanak Zhanak Payal Baje" on Saturday, November 16 at the Uptown Theater at 3:15 p.m.

This movie has received many national and international awards and is presented with the firm hope of better understanding between our two countries.

The story is of two Indian dancers, one of whom, Sandhya, is described by Hollywood as the "symbol of Indian womanhood" and the male lead, Gopikrishna, is one of India's best classical dancers.

After having received wide acclaim, this movie should prompt good attendance from the student body which has expressed an awareness of the problems in student relations.

India Ass'n Hears Speech By Dean Baker

At 7:30 P. M. on November 9, the India Association held its third general meeting of the year in Room 107 of the Mining Building.

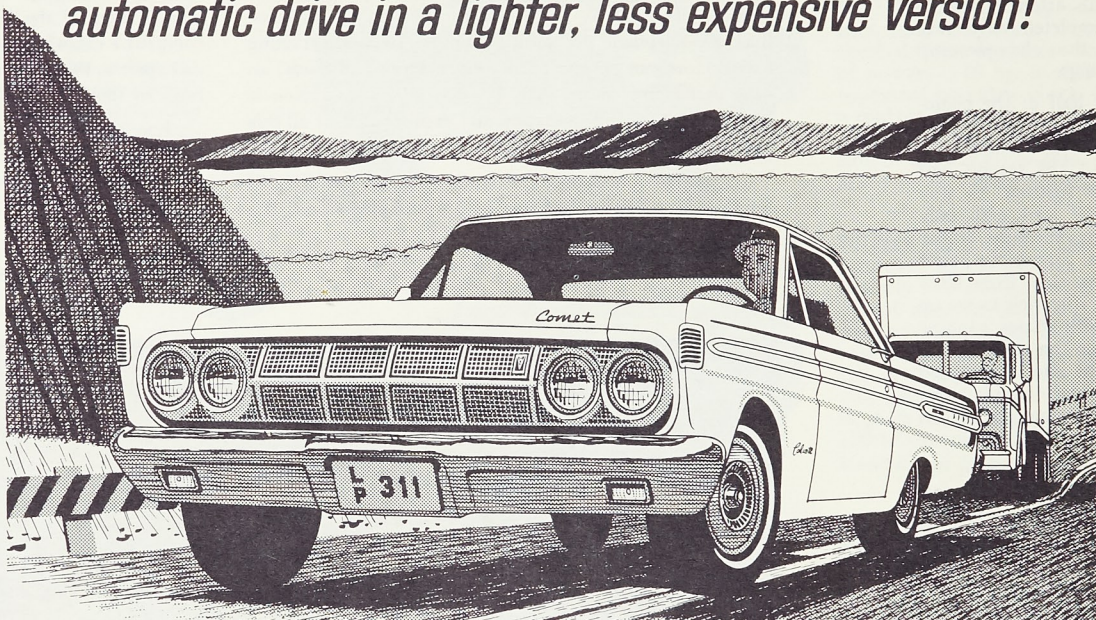
After the minutes of the previous meeting were read by the Secretary-Treasurer, Mr. Harish M. Mehta, the organization held a brief business discussion.

Climaxing the evening's activities, President Patel then introduced Dean Merl Baker, who addressed the Association members and guests. Dean Baker's speech, which treated educational objectives in America, consisted of a brief history of American education followed by a question and answer session. Mr. Baker also considered the importance of MSM at present and in the future, commenting that the school, within a comparatively short time, should rank with such well-known colleges as M.I.T. and I.I.T.

NOTICE!

Applications for membership in the Campus Eating Club can be made on Nov. 19, in Room 202-3 of the Student Union, at 5:30 p.m.

Assignment: match the performance of our finest automatic drive in a lighter, less expensive version!



Result: A new Ford-built 3-speed torque converter—ideal "traveling companion" for our new, hotter, medium-displacement V-8 engines

A completely new Ford Motor Company 3-speed automatic drive for 1964 delivers improved passing performance... smoother acceleration... better start-ups (up to 35% higher torque multiplication in Low)... more flexible downhill braking... quieter operation in Neutral.

With the introduction of this lighter, highly durable and efficient transmission in 1964 Comet, Fairlane and Ford models, our engineers have taken still another step toward putting extra pep per pound into Ford-built cars.

Simplified gear case design and a one-piece aluminum casting result in a lighter, more compact transmission—one that has fewer components and is extremely easy to maintain. Built to precision tolerances akin to those in missile production, the new automatic transmission is truly a product of the space age, and is typical of technical progress at Ford.

Another assignment completed; another case of engineering leadership at Ford providing fresh ideas for the American Road.



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Allgood's Squad Ready For Tough Roundball Loop

With the final football game written off as history, thoughts now turn to the sport of the winter months, basketball. Practice is now underway for MSM's "roundballers," and it couldn't start too soon, for the first contest on December 2.

Under the able direction of coach Dewey Allgood, the Miners will undertake one of the most difficult schedules of the past few years. One of the principle additions to the list of opponents is Southern Illinois University at Carbondale. The Salukis will travel to MSM for a game on January 10, after having hosted the Miners during the previous week. SIU is also an invite to the MIAA Christmas Tournament.

The Silver and Gold roster will include seven starting lettermen: Howard Martin, Ralph Farber, Dave Murrell, Carl Reichert, Bob Richner, Harold Wampler, and Bob Mitchell. Also present at the first practice was Hugh Tyler, a transfer student from Oklahoma City University. Included in the list of Freshmen are: Steve Beard, Gary Cagle, Bob Hilgendorf, Bob Hale, Mike Wagner, Ken Hammer, and Roger Herzog. Don Wallace, Ron Hugerich, and Jack Hornbuckle round out the 1963-64 squad.

Missing from this year's line-up will be Phil Glover, Luther Gray, and letterman Jim Good. Good was injured in intramural football play this fall, and Gray is a transfer student not eligible for play until next year.

The twenty game schedule commences on December 2 with a duel against Evangel. With three weeks of practice remaining until that date, the Miner Five should be ready for a rough and tumbling battle.

Mizzou Downed By Undefeated Miner Rifle Team

The MSM Rifle Team defeated the University of Missouri squad this past weekend in a traditional shoulder-to-shoulder battle, a rivalry which has been raging between the two campuses for several years. The match was fired at the Missouri range in Columbia.

From the beginning of the match it was evident that the Mizzou squad was lying in ambush for the Miners, who went

(Continued on Page 8)

Miners Blank Mules 10-0, Tie for Third in MIAA Final

The fighting Silver and Gold of MSM were catapulted into third place in the final MIAA standings last Saturday, as the Missouri Miners wiped-out the Warrensburg Mules to the tune of 10-0. In a contest in which their opponents were never caught within twenty yards of the Miner goal line, Coach Bullman's gang out-distanced the Mules three to one on first downs and total yardage. The Miner Eleven was never threatened in this contest which was played before a capacity Parents Day crowd.

MSM's first tally came in the first period, as Gary Couse scored a TD from the seven yard line. The ball had come from the Miner 28 yard line in 8 plays, Couse giving it the final run. Bob Leone popped a place kick over for the extra point. Leone also came through in the third quarter as he kicked a field goal for three more. This was all that the Miner squad needed, although there were opportunities for more.

The Miners were playing without the services of Bob Kaiser and Dale Sukow. Although this put pressure on the squad, the slack

was taken up and the units performed well. The following men made up the line on both offense and defense during most of the contest: Wargo, Welch, and Wallace (ends); Smith, Bailey, and Fix (tackles); Bacich, Ombalski, and Leone (guards). Riggs took both the center and tackle positions. Filling in on defense were Key and Turner. Alford and De Bold played the whole game on defense, and Wheeler quarterbacked as usual.

The game was marked by long

punt returns. Turner connected for a long one which would have resulted in a score, however, a clipping penalty on the Miners nullified it.

Couse smashed a school record as he racked up 31 carries, good for a total of 142 yards and one touchdown. Next to Couse, the leading ground player was a freshman named Ken Price. This 195 pound halfback from Roosevelt High in St. Louis took the place of Bob Erxleben, who is out as a result of injuries.

SIDELINES

By Bruce T. Gregg

The empty gymnasium will soon resound to the cheers of intramural basketball's loyal supporters. The teams this year should be better than ever and some very good games will be played. Enthusiastic shouts of victory and accomplishments will echo from the walls and MSM's students will play their best to put their organization in the lead. The leagues have been chosen with care so as to enable teams to be evenly matched.

Since in past years there have been large numbers of spectators at intramural basketball games and since the score is constantly changing, the use of the scoreboard from varsity games would make the games more enjoyable. When only the student scorers know the scores, interest is lost and team support lags. Quite often the players themselves wish to know the score and how they stand with the opposing team. As it is now, they often go without this information. Spectators also start inquiring and thus are a distraction to the other sports fans.

Any expenses incurred by the use of the scoreboard would be far outweighed by the convenience gained by the spectators. The scoring would be easy to handle with the electrical scoreboard and there is no reason why something should go unused when with no trouble at all it could be put to the benefit of the majority.

Cross Country Schedule Ends With MIAA Meet

The Kirksville Bulldogs ran away with first place in the annual MIAA Cross Country meet last Saturday. In the meet held at Warrensburg, Cape Girardeau came in second with 57 points. Kirksville amassed only 27 points while taking the first four places for the title.

Springfield totaled 88 for third place, Warrensburg 90 for fourth, and the Miners totaled 126, to

come in last.

Although the outcome of the 1963 Cross Country season left much to be desired, the expectations for next season are running high. This could be considered a building year for Coach Spencer's men, and the experience gained this season will be invaluable for next year's team.

Graduation Will Take Toll in MSM Grid Lineup

The 1963 pigskin schedule is now history at MSM, and thoughts turn to the seniors who will no longer be a part of MSM the next time football season rolls around. Among those who played their last Miner football game Saturday are Jay Alford, Keith Bailey, Gary Couse, Steve Ombalski, Charlie Riggs, Ken Smith, Terry Wargo, Dale Sukow, and Bob Erxleben.

Alford put in four years with the Miner squad and has been one of the school's most outstanding quarterbacks. Once again this year, he is listed in the top ten conference passers. Many a record has been smashed by Jay's fine throwing arm.

Bailey along with Smith made up the 1-2 punch at the tackle positions this year. This strong combination on the line foiled many opposing plays. Both four year men will be greatly missed next year.

Couse turned out to be the leading Miner scorer and a pos-

sible candidate for an all conference selection. Plagued by injuries during the past two seasons, Gary came through in fine style as one of the most valuable players of the 1963 circuit.

At the center position in many of this season's duels was Charley Riggs. A four year veteran starter, Charley proved to be a real hustler for the Miners in this his last year.

Ombalski, one of the key guards and linebackers, is one of those Easterners who makes his way back to MSM each fall. Steve will be missing next fall, however, and a big hole will have to be filled in the Miner line.

Terry Wargo saw action once again this season, but this time was the last. He was another top pass receiver, having caught 6 for 69 yards up through the Springfield contest.

Dale Sukow was a transfer student from Springfield and only played two years at MSM. In

(Continued on Page 8)

MINERS! RAMEY'S 6-PAK

Is Now Open Sundays
10:00 A. M. to 12:00 Midnight

SPECIAL THIS WEEK

Busch Bavarian
\$1.00/6-Pak



Does a man really take unfair advantage of women when he uses Mennen Skin Bracer?

All depends on why he uses it.

Most men simply think Menthol-Iced Skin Bracer is the best after-shave lotion around. Because it cools rather than burns. Because it helps heal shaving nicks and scrapes. Because it helps prevent blemishes.

So who can blame them if Bracer's crisp, long-lasting aroma just happens to affect women so remarkably?

Of course, some men may use Mennen Skin Bracer because of this effect.

How intelligently!



Sigma Nu Takes Football Title, Leads Intramurals

The start of the second half of the semester brings about the start of the second series of intramural sports, and the completion of those which have been in progress for the past two months.

A spot check on intramural point standings shows Sigma Nu in an early lead over Kappa Sigma. Only 26 points separates these two powers (422.0 and 396.5 respectively), and only a mere 4 points comes between the third and fourth place teams, (Triangle and Tech Club, with 346 and 342.5 points, respectively).

Tennis Singles

The Prospectors Club team of Montrey-Gordon wrapped-up the team championship in the tennis singles bracket. This, along with singles runner-up Hank Montrey, brought the Prospectors the first place award, while second went to the Wesley Foundation. Tau Kappa Epsilon took third, and Sigma Nu took fourth. First place was worth 39 points and second 37.5.

The singles champion was Hanssen of Tau Kappa Epsilon.

Table Tennis

The International Fellowship and the Prospectors Club tied for the first place trophy in table tennis action. Both organizations received 76.5 intramural points, and the Engineer's Club gets 72 points for third. Theta Xi came in fourth, Sigma Nu fifth, and Sigma Pi sixth.

Singles champion was Winshone of the International Fellowship. The team of Schroer-Morhans of the Prospectors took the doubles championship.

Flag Football

Of the previously mentioned sports, none carry as much weight as flag football. The winner of the playoffs receives 260 intramural points for the feat, and the three places immediately following receive 10 less points than the preceding team.

Sigma Nu copped the championship this year, but not without any trouble. Triangle came

in second for the 250 points, and Kappa Sigma took third. Beta Sigma Psi brought home 230 points with fourth place.

Lambda Chi Alpha and Tau Kappa Epsilon tied for fifth place with individual records of 5 wins and a single loss.

The swimming events took place this week, and basketball is now under way. The results in the points standings are far from being final, and anything can happen. Remember that *YOU* can take part in these intramural sports. Support your organization's team!!

GRADUATION TOLL

(Continued From Page 7)

these two years, he has proved his ability to back up the line and also analyze the plays before they develop.

Erxleben transferred from Cape, but had three years of experience on the Indian squad before arriving at MSM. Bob came to be second only to Couse in scoring and was another valuable player.

Everyone of the above mentioned men, with the exception of the transfer students, were used as captain of the Silver and Gold at one time or another over the past two years. This is an example showing the calibre of men which make up the Miner Eleven. They will be leaving through graduation. Can they be replaced? Eleven jackets were given out at the end of this season. These will be the men to fill their shoes. Only time and practice will spell the outcome.

Oklahoma Picked Over Missouri Tigers

Mississippi, with a power quotient of 109.7, is still Number One. And with Tennessee having a difficult year, this Saturday doesn't look to be too trying for the Rebels. Mississippi will hand the Volunteers a 15-point defeat.

And mighty Texas is well on the road to the Southwest Conference championship after its biggest win of the year. The Longhorns are still ranked in the runner-up spot in the nation, and if ol' man upset will stay 'way from their door, they'll rack T. C. U. by 13 points.

In the Big Ten race, it's now Michigan State's turn to "sit out" and let Ohio State return to do battle with conference opposition. The Spartans who have moved into the no. 3 spot in this week's ratings knock heads with the Irish of Notre Dame. And the powerful Michigans are favored by a big 21 points.

As for 18th-ranked Ohio State, its "job" is at stake. The Buckeyes meet an ex-member of the Top 20 in Northwestern. Ohio State will bump the Wildcats by two, and stay right in the conference race with Michigan State.

HEAD - ON - CHOPPING - BLOCK - DEPARTMENT (..or let's really go out on the limb.): the power quotients pick Alabama, 4th in the nation over Georgia Tech, no. 12, and Illinois, no. 9, over Wisconsin, no. 15. We're going to argue both points! Tech is going to nip Alabama by one, and Wisconsin is going to upset

The Harmon Football Forecast

TOP 20 TEAMS

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

1 - MISSISSIPPI	6 - NEBRASKA	11 - BAYLOR	16 - MEMPHIS STATE
2 - TEXAS	7 - PITTSBURGH	12 - GEORGIA TECH	17 - RICE
3 - MICH. STATE	8 - OKLAHOMA	13 - MISS. STATE	18 - OHIO STATE
4 - ALABAMA	9 - ILLINOIS	14 - AUBURN	19 - SYRACUSE
5 - NAVY	10 - WASHINGTON	15 - WISCONSIN	20 - ARMY

Friday, November 15

Occidental	26	Cal Tech	0
Panhandle A & M	20	Central Oklahoma	19
Southern California	26	Oregon State	13
Xavier	24	Detroit	6
Youngstown	21	Augustana, S. D.	7

Saturday, Nov. 16 — Major Colleges

Air Force	35	New Mexico	13
Arizona State	20	Wyoming	15
Arkansas	21	S. M. U.	8
Auburn	17	Georgia	6
Baylor	22	Kentucky	6
Boston College	21	Virginia	6
Bowling Green	14	Ohio U.	7
Brigham Young	25	Pacific College	12
Buffalo	26	Colgate	6
California	19	Utah	14
Cincinnati	19	Wichita	8
Clemson	17	Maryland	6
Colorado State U.	23	Montana	13
Columbia	15	Pennsylvania	12
Dartmouth	21	Cornell	7
Delaware	27	Rutgers	7
Florida State	14	North Carolina State	9
Georgia Tech	22	Alabama	21
Harvard	16	Brown	6
Houston	19	Tulsa	7
Idaho	25	Oregon State	0
Indiana	20	Oregon	18
Iowa State	27	Kansas State	6
Kansas	28	Colorado	6
Louisville	14	Western Michigan	12
Marshall	19	Kent State	13
Memphis State	33	Chattanooga	0
Miami, Ohio	13	Dayton	0
Michigan	17	Iowa	15
Michigan State	28	Notre Dame	7
Mississippi	21	Tennessee	6
Miss. State	15	L. S. U.	14
Navy	30	Duke	14
Nebraska	34	Okla. State	7
North Carolina	21	Miami, Fla.	19
North Texas	16	Hardin-Simmons	7
Ohio State	17	Northwestern	15
Oklahoma	30	Missouri	15
Penn State	30	Holy Cross	0
Pittsburgh	20	Army	17
Princeton	21	Yale	10
Purdue	17	Minnesota	14
Rice	20	Texas A & M	8
San Jose State	28	Fresno State	6
South Carolina	24	Wake Forest	0
Southern Illinois	15	Toledo	13
Stanford	20	Washington State	10
Syracuse	31	Richmond	7
Texas	21	T. C. U.	8
Texas Tech	25	Texas Western	0
Tulane	15	Vanderbilt	14
Utah State	27	New Mexico State	0
W. M. I.	29	The Citadel	10
Washington	28	U. C. L. A.	6
West Virginia	19	V. P. I.	19
William & Mary	19	Davidson	7
Wisconsin	15	Illinois	14

EAST (small colleges)

Amherst	20	Williams	6
Bridgeport	24	Col. Connecticut	7
Bucknell	22	Lehigh	6
Connecticut	29	Rhode Island	6
Dickinson	32	Johns Hopkins	0
Hamilton	25	Union	0
Hofstra	25	Albion	8
King's Point	13	Hobart	7
Lebanon Valley	18	Ursinus	7
Massachusetts	38	New Hampshire	0
Montclair	14	Trenton	8
Muhlenberg	29	Franklin & Marshall	0
Penn Military	18	Swarthmore	15
Rochester	31	R. P. I.	0
Southern Conn.	20	American Int'l	12
Springfield	21	Coast Guard	20
Susquehanna	21	Temple	19
Tufts	21	Lafayette	14
Wesleyan	12	Trinity, Conn.	6
Western Maryland	15	Drexel Tech	12
Wilkes	35	Haverford	6

MIDWEST (small colleges)

Ashland	28	Alma	6
Augustana, Ill.	44	Concordia, Ill.	0
Baldwin-Wallace	25	Muskingum	13
Bradley	18	Evansville	7
Capital	21	Otterbein	20
Central Michigan	21	Hillsdale	18
Central State, Ohio	25	West Va. State	6
Centre	26	Hanover	0
Denison	19	Ohio Wesleyan	14
DePauw	21	Wabash	19
E. Central Oklahoma	20	Tarleton	13
Emporia College	30	Southwestern, Kan.	7
Findlay	29	Mount Union	0
Hiram	22	Grave	0
Illinois Wesleyan	15	Illinois State	12
John Carroll	21	Wash. & Jefferson	6
Kalamazoo	20	Kenyon	0
Lincoln	21	Langston	13
Marquette	21	Heidelberg	17
NE Oklahoma	36	Central Missouri	0
Oberlin	20	Wooster	13
Omaha	23	Drake	14
Principia	13	Indiana Central	7
SV Missouri	17	Akron	14
SV Oklahoma	20	Fort Hays	9
Western Illinois	21	Eastern Illinois	0
Western Reserve	13	Case Tech	6
Wheaton	13	Valparaiso	8
Wittenberg	21	Gettysburg	0

SOUTH (small colleges)

Abilene Christian	31	McMurry	6
Appalachian	12	Emory & Henry	0
Arkansas A & M	25	Southern State	7
Arkansas Tech	14	Ozarks	0
Arlington	19	Trinity, Texas	15
Carson-Newman	14	Maryville	6
Catawba	23	Gulford	0
Delta State	21	NE Louisiana	20
East Tennessee	22	Middle Tennessee	21
East Texas	21	Lamar Tech	19
Hampden-Sydney	15	Randolph-Macon	6
Howard	17	Louisiana College	8
Jacksonville	16	Liveston	7
Lenoir-Rhyne	17	Elon	15
Martin (U. of Tenn.)	15	Florence	14
McNeese	21	SE Louisiana	9
Morehead	21	Eastern Kentucky	14
Newberry	12	Western Carolina	8
NE Missouri	20	Murray	19
NW Louisiana	14	SW Louisiana	7
Ouachita	30	Mississippi	0
Presbyterian	15	Troy State	7
Sam Houston	20	S. F. Austin	17
Sewanee	24	Livingston, Mo.	7
South Dakota State	20	Arkansas State	13
Southern Mississippi	21	Louisiana Tech	7
Southwest Texas	24	Howard Payne	0
Tampa	14	Wofford	10
Tennessee Tech	20	Austin Peay	6
Texas A & I	27	Sul Ross	13
Texas Lutheran	18	SE Oklahoma	13
Washington & Lee	19	Southwestern, Tenn.	7
Wayne State, Mich.	12	Bethany, W. Va.	7
West Va. Wesleyan	14	Georgetown	0

FAR WEST (small colleges)

Adams State	37	New Mexico Highlands	0
Arizona State	21	Eastern New Mexico	13
Claremont-Mudd	15	LaVerne	6
Colorado Mines	29	Colorado College	6
Colorado State	20	Western New Mexico	0
Colorado Western	23	Weber	12
Davis	21	Sacramento	20
Humboldt	23	Chico State	12
Linfield	20	Willamette	6
Los Angeles	26	Long Beach	14
Pacific U.	12	Idaho College	7
Pomona	24	Cal Lutheran	7
Redlands	20	Riverside	0
San Diego State	50	San Fernando	0
San Francisco	20	Nevada	13
Santa Barbara	21	Cal Poly (S. L. O.)	6
Santa Clara	21	Southern Oregon	12
Western Washington	18	Pacific Lutheran	7
Whittier	20	Cal Western	14
Whitworth	13	Central Washington	0

the Illini by a point. Well, Good Hunting.

The Middies of Navy, climbing higher each week, are ranked fifth - and are 16 points too strong for Duke.

The forecasting percentages sorta smiled in a nice way last week as the crystal ball hit a .775 average with 124 big smiles, 36 frowns, and six straight faces. That leaves the season's average at the .759 mark as 1,046 games have been picked correctly, 333 incorrectly.

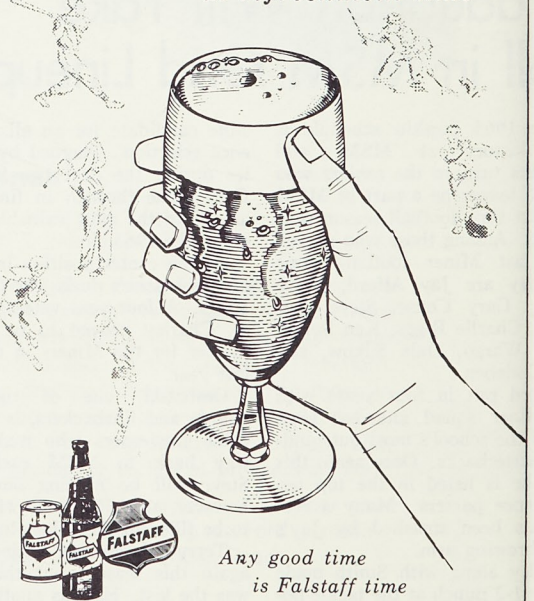
A real wallop in the East matches 7th-ranked Pittsburgh and 20th-ranked Army. The Cadets had been gradually getting stronger since the debacle in Minneapolis until last week. However, they'll give the Panthers fits before losing by three points.

Big Eight action again centers around the two conference leaders, Oklahoma and Nebraska. The Sooners slipped back to 8th this week and they have the toughest assignment: to whip Missouri by the predicted 6-point spread. Nebraska jumped from 12th to the no. 6 position on the national ladder, and is favored to spank Oklahoma State by 27 points.

Washington, no. 10, is still in Big Daddy's driver's seat on the West Coast. The Huskies will scuttle U. C. L. A. this week by 22 points.

FALSTAFF WINS

at refreshment time



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