



11 Oct 1963

The Missouri Miner, October 11, 1963

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Materials Research Center To Be Constructed Here

James A. Webb, Administrator of NASA; University President, Elmer Ellis; Dean Merl Baker, and other members of the MSM and Columbia faculties of the University of Missouri held a conference to discuss the new 'space center,' to be built at Missouri School of Mines next spring. The 'space center,' actually a "Materials Research" center, is presently scheduled to be built with state funds. The nature of the center and the fact that state funds are involved has raised the possibility that federal aid under NASA might be obtained. This would more than double the size of the center and increase its cost from about \$500,000 to \$1,500,000.

The materials research center was originally conceived by the Governor's Science and Advisory Committee of which retired Dean Wilson was Chairman and Dr. Eppelsheimer a member. The Science and Advisory Committee was responsible for obtaining state aid for the construction of the center.

Senator Symington was responsible for arranging the conference, attended by Dr. Carlton, Dr. Fuller, Dr. Hardin, and Dr. Planje from the MSM campus as well as several professors from the campus at Columbia.

The center, which will provide advanced materials research and numerous scholarships, should prove to be one of the biggest assets of the School.

Football Game To Be Highlight Of Parents Day

On Saturday, October 12, MSM will sponsor the annual Parents Day. An excellent program is planned for this day, including tours of the campus and facilities, engineering exhibits, a reception for parents given by Dean Baker, and a banquet later in the evening.

8:00 a. m. to 12:30 p. m.—Registration of parents and visitors, and the Dean's reception for parents at the Student Union.

8:00 a. m. to 12:30 p. m.—Inspection of campus, laboratories and engineering exhibits.

1:50 p. m.—Flag raising ceremonies, Jackling Field, MSM-ROTC Band.

2:00 p. m. — Football Game, Missouri School of Mines vs. Cape Girardeau. MSM-ROTC Marching Band.

6:00 p. m.—Parents Day Banquet, Rolla High School Cafeteria. Speaker: Mr. Mel Carnahan, Missouri Representative, Phelps County. Music by Kappa Alpha Quartet.

People-to-People Begins Program

International students at the MSM are invited to participate in the fall and winter program of international friendship sponsored by the Rolla People-to-People committee, Larry Felice, chairman, has announced.

The program, held locally for the first time during the Spring semester of last year, provides an opportunity for international students to visit in homes of this community. The People-to-People committee serves as a central a-

(Continued on Page 4)

Olympic Torch Carried By Cross Country Team

On September 17, in Los Angeles, California, the Olympic torch was started on its journey to Detroit. This run, sponsored by the Detroit Olympic Committee, was run by various athletic groups, of which the MSM cross country team was a part. The purpose of the run was to en-

hance Detroit's bid to have the 1968 Olympics held in that city.

Passing through Rolla some 12 hours ahead of schedule, the torch was carried by members of the cross country squad, who took turns running with the torch. The runners were given an escort by the city police.



Gary Lee of the MSM cross country squad is shown carrying the olympic torch on Highway 66, just outside Rolla.

M
The Missouri

MINER

MISSOURI SCHOOL OF MINES AND METALLURGY

VOLUME 50

FRIDAY, OCTOBER 11, 1963

NUMBER 4

Campus Presidents Hear Dean At Student Council Breakfast

The presidents of the major campus student organizations and the members of the Student Council met with Dean Merl Baker at 8:30 a. m., October 7.

The purpose of this meeting was to inform the student body about the policies and plans of MSM. The meeting was sponsored by the Student Council in agreement with policies formed by the council concerning the strengthening of the campus through a more informed student body.

An enjoyable breakfast was had in the Student Union Ballroom after which the students in attendance had the opportunity to direct questions to Dean Baker.

The first question of the morning concerned the athletic program of MSM, primarily the varsity sports program. What are the plans for the strengthening of this program? Dean Baker responded with a very favorable attitude toward assistance to the program "within the rules of the conference and certain financial limitations." It is recognized that the athletic department must have adequate facilities in order to perform to the best of its ability, and the proposed fieldhouse-auditorium for MSM was mentioned as one of the primary major expansions to the sports and cultural facilities.

In response to inquiry about expanding curricula on the campus, Dean Baker expressed the feeling that we must "proceed cautiously" and seek to support and strengthen the existing curricula before adding new ones.

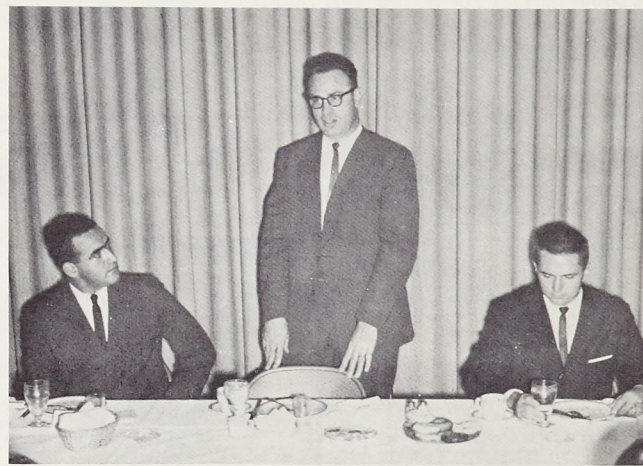
The expansion of the graduate school was discussed; however Dean Baker was not able to make definite comments concerning foreseeable plans. The Dean did say that expansion of the faculty as well as the physical plant is of utmost importance in the expansion of the graduate curricula.

A question was raised concern-

ing the part of the Missouri School of Mines in the space research being conducted throughout the world. The Dean pointed

school's policy in this area if the high standards practiced in the past are continued."

The question about changing



Dr. Baker answers a question at Student Council Breakfast.

out that at present the school is being considered for work in the materials science field.

The policy of the school in the past concerning student self-government has been to be one of great tolerance and respect for the student groups. The Dean is quoted as saying, "Students' active part in their own government is very healthy to the campus when carried on in a dignified manner with high standards. The students of MSM have shown their ability, and I hope they can keep up the good work. There should be no change in the

the name of the school was presented. Dean Baker said that many arguments could be raised on both sides of the question and that no positive action had been taken.

Dean Baker commented that the future strengthening of the MSM humanities could add greatly to the "professionalism of the engineering college." It was mentioned that some highly recognized engineering schools also offer a B. A. degree in humanities; however Dean Baker said that

(Continued from Page 6)

Fee Increase Proposed For 1964-65 School Year

To consider possible changes in the MSM student fees, the Student Council met in a special meeting 3:30 Friday, October 4. Under the influence of Dean Merl Baker, the Student Council is interested in promoting an increased extracurricular activities program, with particular emphasis on the inevitable build-up of facilities in the Student Union building. A fifteen-dollar boost has already been voted by the administration of the university, increasing the "incidental" portion of the fees. The other portions of the fee list under consideration are as follows:

FEE	63-64		64-65	
	Fall	Spring	Fall	Spring
Student Activities				
1. Athletics	9.00	9.00	12.50	12.50
2. Rollamo	7.00		7.00	
3. General Lectures	1.00	1.00	1.50	1.50
4. Student Council	1.00	1.00	1.00	1.00
5. Miner	1.00	1.00	1.25	1.25
6. Golf Course	.50	.50	.50	.50
7. St. Pat's			.50	.50
8. KMSM	.50	.50	.75	.75
Sub Total	20.00	13.00	25.00	18.00
Student Union	7.50	7.50	13.00	13.00
Incidental (passed)	100.00	100.00	115.00	115.00
Total for Missouri Residents	127.50	127.50	153.00	146.00

The budget, with proposed changes, will be presented to the Board of Curators of the University of Missouri at their October meeting.

Dean Welcomes Parents

Dear Parents:

We hope that you will find time to participate in this year's Parents' Day activities on the campus of Missouri School of Mines and Metallurgy. This day has been set aside for the purpose of our becoming better acquainted with the parents of our students. We also hope that through this contact the parents will learn more about the school that their son or daughter is attending.

The Missouri School of Mines and Metallurgy is an engineering and science school, a division of the University of Missouri. The fields of engineering at our school are many and the education offered to our students is vital to our country's needs.

We are not forgetting the responsibility that you have accorded us in sending your son and daughter to this institution for their higher education. Through this visit to our campus today, we hope that you will see a college in action and meet with our faculty and students.

Your acquaintance with our facilities makes for better understanding and co-operation in this very important problem of education. A team composed of parents, teachers and students is difficult to beat, particularly if all of us are mindful of the problems at hand. I am glad to have this opportunity to open the campus of Missouri School of Mines and Metallurgy for your inspection and to show you first hand the many phases of engineering education that we offer at the Missouri School of Mines and Metallurgy.

MERL BAKER
Dean

MISSOURI SCHOOL OF MINES AND METALLURGY ENROLLMENT STATISTICS

End of Tuesday
Sept. 17, 1963

	FRESHMAN	SOPHOMORE	JUNIOR	SENIOR	GRADUATE	UNCLASS.	TOTAL
MINING ENGR. (Ia-Ib)	20	12	11	15	17		75
Ia Mining	10	8	3	8	13		42
Ib Petroleum	10	4	8	7	4		33
METALLURGICAL ENGR. (II-III)	65	(1)53	60	59	31		(1)268
II Met. Engr.	49	38(1)	44	42	31		204(1)
III Nuclear Option	16	15	16	17	XXXXXX		64
CIVIL ENGR.	(1)186	(1)189	162	138	XX 27		XX(6)702
SCIENCE, APPLIED MATH	(3) 25	b (3) 27	(4)13	(1)XX20	XX(2)26		XX(13)112
SCIENCE, CHEM.	(3) 32	20	(2)14	9	(2)12		(7)87
SCIENCE, GEOL.	(1) 18	14	11	XX	X21		(1)X68
SCIENCE, PHYS.	(2) 39	39	(2)37	X23	X41		X(4)179
MECHANICAL ENGR.	254	205	155	XXX	XXX		XXX(2)777
ELECTRICAL ENGR.	307	(1)183	(1)158	XXX	XXX		XXX(2)835
CHEMICAL ENGR. (VII-VIII)	(2) 80	62	62	43	(1)38		(3)285
VII Chem. Engr.	80(3)	60	60	42	37(1)		279(3)
VIII Pet. Ref.	2	2	1	1			6
CERAMIC ENGR.	(2)25	11	18	14	(1)8		(3)76
GEOLOGICAL ENGR.	6	2		1	4		13
NUCLEAR ENGR.	XXXXXX	XXXXXX	XXXXXX	XXXXXX	2		2
ENGINEERING	37	(1)10		1			(1)48
REGULAR STUDENTS	(14)1095	(7)827	(9)701	(1)582	(6)322		(37)3527
SPECIAL					16		(2) 18
UNCLASSIFIED					(25)42		(25)42
	(14)1095	(7) 827	(9) 701	(1) 582	(8) 338	(25)44	(64)3587
							Less Duals-----
							13
							3574

MINER

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. Entered as second class matter February 8, 1945, at the Post Office at Rolla, Mo., under the Act of March 3, 1879.

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The Reviewer's Stand

Frank Sinatra scores again in a highly successful stage play that has been converted into a sophisticated film comedy that packs a wallop. "Come Blow Your Horn" is loaded with beautiful girls, stunning wardrobes, a New York penthouse that taxes the imagination, fancy automobiles, all against a Manhattan background on the most glittering side. It will be shown at the Uptown Theater from Friday, October 11, through Tuesday, October 15.

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Wed., Thurs. Oct. 16-17

'The Stripper'

Joanne Woodward & Richard Beymer

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LAST WEEK

Fri., Sat. Oct. 11-12

'Master of the World'

Vincent Price & Mary Webster

—PLUS—

'Firebrand'

Kent Taylor & Lisa Montell

Sun., Mon. Oct. 13-14

'State Fair'

Pat Boone & Pamela Tiffin

—PLUS—

'House of Women'

Shirley Knight & Andrew Duggan

Tuesday Oct. 15

DOLLAR-A-CAR-LOAD

'Rachel Cade'

Angie Dickinson & Roger Moore

—PLUS—

'Belle Sommers'

David Janssen & Polly Bergen

CLOSED

Wed., Thurs., Oct. 16-17

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Sunday Feature Shown:

1:05, 4:15, 7:30

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Radio Club Communicates Throughout the World

From the top of the venerable Rolla Building a silvery spire shoots skyward. To many this is nothing more than a piece of aluminum pipe with three round black boxes spaced unevenly along its length. To the members of the Missouri School of Mines Radio Club it is a link to the outer world.

Soon to be joined by a box-kite like "quad" and accompanied by its predecessor, the wire dipole strung from the old smoke-stack to the roof of Norwood Hall, this antenna provides a means of communications to any point on the globe.

An array of electronic equipment in the "shack", located in the basement of the Rolla Building, ranges from military surplus equipment donated by club members and interested agencies through devices designed and constructed by members of the club, to modern, up-to-date, commercial units purchased with club funds and money provided by the Student Council.

A continuous program of expansion, construction and maintenance keeps the equipment operating properly and up-to-date.

Members of the club who hold valid amateur class radio operator's licenses utilize the club station to talk with old friends, and make many new friends, throughout the world. Non-licensed members have at their disposal the means to study and obtain their licenses if they desire to do so. The club provides tape machines for this purpose and additional help is always available from the licensed members. Numerous con-

tests throughout the year promote a sense of adventure and a spirit of competition by giving the club a chance to win handsome certificates provided by such agencies as the American Radio Relay League and the Radio Society of Great Britain.

Quite a number of awards have already been won by the club in past contests. As the members gain skill and experience it is assured that new awards are in the future for them.

Since its founding in 1939, the club has provided students at MSM a means of recreation and of furthering their knowledge in the field of communications. It has provided valuable training in the construction and operation of diversified and complex electronic equipment and experience touching every field of endeavor and important to students in every curriculum.

In order to introduce amateur (Continued on Page 4)

James Foundation To Award Stipends

Three Lucy Wortham James Scholarships valued at \$200 each will be awarded during the current semester. 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.

Recipients of the scholarships will be selected by a Faculty Committee on the basis of scholarship, integrity, engineering promise and need. Students from any of the four undergraduate classes may apply. Application blanks are available in Dean Ponder's Office, Room 101, Parker Hall.

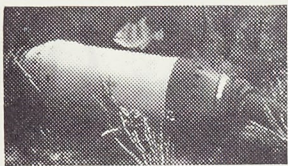
It is suggested that all applications be filed no later than October 15, 1963. Selection of recipients will be made as soon as possible after that date.

LITTLE MAN ON CAMPUS



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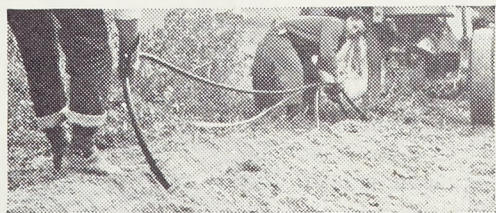
SWIMS...



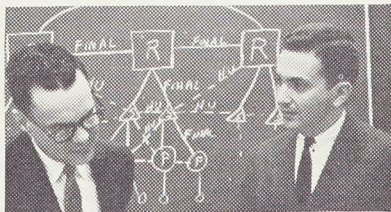
ORBITS...



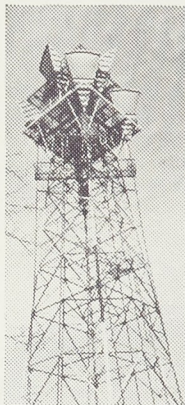
PUSHES...



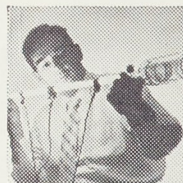
BURROWS...



AND LIVES AND BREATHES...



BEAMS...



FLASHES...



PULSES...



TALKS...



WINKS...



BLINKS...

Phillip Vittore Guest Speaker At ASCE Meeting

The student chapter of the American Society of Civil Engineers held its first meeting of the semester on October 2, at 7:30 p.m. Mr. Phillip Vittore of the Dietzen Co. was the speaker for the evening who spoke on new advancements in surveying instruments.

In his lecture Mr. Vittore explained the principles and uses of the telerometer, geodimeter, automatic level, and the theodolite, a new transit accurate to a tenth of a degree circle. This high degree of accuracy is made possible by new and more exacting optical equipment. Mr. Vittore's thorough knowledge of his subject and good sense of humor made this a very interesting and informative meeting.

The next A. S. C. E. meeting will be held on Tuesday, October 15, with Dean Baker as principal speaker. This is Dean Baker's first address to any student organization. We therefore urge all civil engineering students to attend.

Don't forget the A. S. C. E. on Parents Day! This year the A. S. C. E. will sponsor four fifteen minute programs designed to acquaint the parents with what civil engineering really is. These programs will be given in the civil engineering auditorium, at 9:00, 10:00, 11:00 a.m. and 12:00 noon, Saturday, October 12.



Bell Telephone Companies

Dr. J. Hoover Mackin to Speak On Changes in Geological Study

Below is a summary of a lecture to be given by Dr. J. Hoover Mackin, as Sigma Xi national lecturer at several colleges and universities. It is entitled "The Swing to the Quantitative in Geology."

Geology, traditionally qualitative, is now being rapidly quantified, and is experiencing the growing pains that have been associated with that change in each of the sciences at different times in the last 500 years. In an extreme view it might seem that two mutually-exclusive methods of investigation are in collision.

The classical geologic approach to problem-solving is by the so-called "scientific method," which depends primarily on reasoning at every step; from the defining of the problem; through the gathering and testing the data, item by item, as to accuracy and relevance; and through all stages of processing the data. The objective is an understanding of the system investigated, as quantitative as the data permit. The other method is largely empirical; it is not discriminative in the data-gathering process, and it depends primarily on statistics and mechanical methods of data-processing, ranging from scatter-diagrams to computers, in arriving at quantitative answers.

Because in many recent investigations these empirical procedures replace the reasoned checks and

balances of the "scientific method," some of our conservatives identify these procedures with quantification as such, and therefore oppose quantification. On the other hand, some of our avant-garde consider the cautious

probings of the scientific methods to be outmoded. This paper suggests that the cleavage between the two groups is partly due to misunderstanding; that each method has unique advantages that suit it to different types of data and objectives, and that efficiency in investigation of any complex system demands that they be combined. Examples are drawn from recent papers dealing with the geologic work of rivers.

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RADIO CLUB

(Continued From Page 3)
radio to everyone interested, the radio club plans to sponsor programs and classes during the year. It extends an open invitation to

all students, faculty, and guests of the School of Mines to attend the next meeting at 7:00 P.M., October 24, 1963, in room 202-203 of the Student Union.

M. S. M. Class Rings

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Dake Society To Hear From J. A. Gilreath

Mr. J. A. Gilreath, Schlumberger Well Surveying Corporation, New Orleans, Louisiana, Distinguished Lecturer sponsored by the American Association of Petroleum Geologists will address a combined meeting of the Dake Society, the Geology Department Seminar and the student section of the Petroleum Division of A. I. M. E. on October 17, 1963. The meeting will be held on the MSM Campus.

Mr. Gilreath will be lecturing on "Use of the Dipmeter as an Aid in Intercepting Subsurface Structural and Depositional Features."

PEOPLE-TO-PEOPLE

(Continued From Page 1)
agency to being students and families together.

An introductory tea will be held in the Student Union ballroom at 7 p. m. Saturday, October 26, at which time students and families will meet. Each new set of friends (family - student) will then carry forth their own ideas in friendship development.

Students who wish to participate are asked to register by Monday, October 21. Registration forms may be secured from the presidents of any of the campus international organizations or by request at the candy counter in the lobby of the Student Union. The completed forms should then be returned to one of the international group presidents or to the Union before the deadline.

For further information, students may contact Larry Felice, 1608 Pine, Phone number 364-1113 or Mrs. E. J. Guhse, phone number 364-1454.

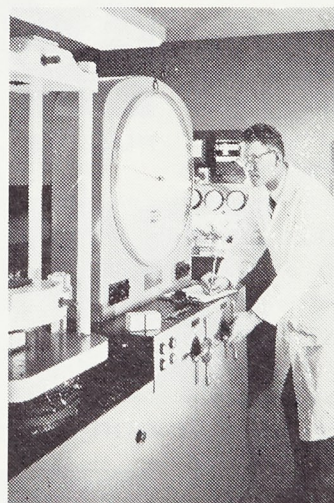
why Dowell can give operators better cement jobs and lower oil well costs

Today, Dowell provides oil well cementing services that reduce the need for remedial squeeze jobs and other cement repair work. These cementing services are performed by experienced cementers, using improved, job-tailored equipment and materials. The result: lower over-all well costs.

Here are four Dowell-pioneered advances that help improve cementing jobs and keep costs down. They are the result of continuous laboratory and field research.

DOWELL'S MECHANICAL MIXER uses a "Controlled Slurry" proportioning system to feed pre-determined amounts of water, cement and additives into the mixing tank. Here, these materials are blended into a smooth, uniform, slurry. The result: fewer channels in long string jobs and a higher success ratio for squeeze jobs.

DOWELL'S DENSITOMETER uses a gamma ray source to give a continuous density reading of the main cement slurry stream. Slurry weight variations as slight as ± 0.1 pound per gallon can be detected, corrected and rechecked quickly. This helps the Dowell operator hold a precise slurry weight. The result: fewer bad spots in the cement



Technician checks strength of cement samples in the Dowell Quality Control Laboratory at Tulsa.

caused by slurry weight variations; fewer squeeze jobs needed to repair these bad spots.

FLAC* fluid loss additive for cement far surpasses anything previously offered. This Dowell-developed material can hold the fluid loss rate below 100 cc/30 minutes at 1000 psi — greatly extending working time. Excess cement can be reversed out after most squeeze jobs. The result: expensive drilling out is usually avoided; dry test after a single-stage squeeze is the rule rather than the exception.

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CEALMENT* cementing service — developed by Dowell — was the first to employ a slurry of latex cement. Cealment is used primarily to "tail in" long strings, set liners and squeeze channels or undesired zones. Good bonding, high resistance to shattering during perforation, resistance to contamination and low fluid loss are some of the superior qualities of Cealment. The result: operators have available a dependable material for critical jobs where other cementing materials often fail.

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Dr. George A. Easley: Benefactor and Founder

This is the first of a series of several articles about distinguished men who were once students at MSM.

Dr. George A. Easley
George A. Easley is one of the

International Mining Corporation.

Dr. Easley was awarded his Doctor of Engineering degree at MSM in 1938, twenty-six years after he received his first degree in engineering.



DR. GEORGE A. EASLEY

three original founders of the St. Pat's Celebration, in addition to being responsible for \$3,000 worth of scholarships for MSM students annually.

Dr. Easley, born in Harwood, Missouri, graduated from MSM in 1909 with a Bachelor of Science Degree in Engineering. As many others did, Dr. Easley sought and found both fame and fortune in South America. He developed, operated, and owned various mines in the different countries of South America. He acted as a consulting engineer with his own firm of Easley and Inslee in the development of other mines. Dr. Easley also helped to organize and served as vice-president of the

Dr. Easley has served as President of the Mining and Metallurgical Society of America, and from 1934-40 served as president of the Mining Club in New York, of which he was a charter member and president from 1934-37. He was President of the American Chamber of Commerce of Bolivia. He has practiced his profession in

Mexico, Central America, and various countries of South America. He has also worked in practically all of the mining states on this continent.

A few years ago Dr. and Mrs. Easley gave MSM securities, the income from which enables the school to award annually six \$500 scholarships. Also, their gifts to other schools and hospitals have been considerable.

We, the students at MSM can be extremely proud of Dr. George A. Easley for it was he, along with countless others, who have made this school what it is today.

NEWS of the Week

Algeria: The government of Algeria President, Ahmed Ben Bella, was threatened as the "Berbers", a group comprising about 1/5 of the population, moved to open rebellion. The revolutionaries are said to have gained support from mutineering army units, and neighboring Morocco has troops poised at the border ready to lend active support to the attempt to oust Ben Bella.

Saigon: A young Buddhist monk burned himself to death in protest against the government of Ngo Dinh Diem and set off a chain of events that ended in demonstrations by thousands of Viet-Nameese, the calling out of large units of troops, and the severe beating of several U. S. reporters and photographers by government police. American

newsmen have been officially barred from that country since 1960.

Honduras: President Ramon Morales was toppled in a military coup and exiled to Costa Rica. The U.S. has cut off all military and economic aid as a warning against other Latin American military overthrows. Morales was very pro-American in his policies.

Washington: President Ken-

nedy asked that the Senate give priority to a civil rights bill over his tax cut bill. He called for passage of both bills, probably the two most important of his administration, by the end of the year. This is highly unlikely, however, in view of a Southern filibuster on the civil rights measure.

Birmingham: Two white men were arrested for investigation into the recent bombings that



BOOM!

Today, foregoing levity, let us turn our keen young minds to the principal problem facing American colleges today: the population explosion. Only last week four people exploded in Cleveland, Ohio—one of them while carrying a plate of soup. In case you're thinking such a thing couldn't happen anywhere but in Cleveland, let me tell you about two other cases last week—a 45-year-old man in Provo, Utah, and a 19-year-old girl in Northfield, Minnesota. And, in addition, there was a near miss in High Point, North Carolina—an eight-year-old boy who was saved only by the quick thinking of his cat, Fred, who pushed the phone off the hook with his muzzle and dialed the department of weights and measures. (It would, perhaps, have been more logical for Fred to dial the fire department, but one can hardly expect a cat to summon a fire engine which is followed by a Dalmatian, can one?)

But I digress. The population explosion, I say, is upon us. It is, of course, cause for concern but not for alarm, because I feel sure that science will ultimately find an answer. After all,



has not science in recent years brought us such marvels as the maser, the bevatron, and the Marlboro filter? Oh, what a saga of science was the discovery of the Marlboro filter! Oh, what a heart-rending epic of trial and error, of dedication and perseverance! And, in the end, what a triumph it was when the Marlboro research team, after years of testing and discarding one filter material after another—iron, nickel, tin, antimony, obsidian, poundcake—finally emerged, tired but happy, from their laboratory, carrying in their hands the perfect filter cigarette! Indeed, what rejoicing there still is whenever we light up a Marlboro which comes to us in soft pack and Flip-Top Box in all fifty states and Cleveland!

Yes, science will ultimately solve the problems arising from the population explosion, but meanwhile America's colleges are in dire straits. Where can we find classrooms and teachers for today's gigantic influx of students?

Well sir, some say the solution is to adopt the trimester system. This system, already in use at many colleges, eliminates summer vacations, has three semesters per annum instead of two, and compresses a four-year-course into three years.

This is, of course, good, but is it good enough? Even under the trimester system the student has occasional days off. Moreover, his nights are utterly wasted in sleeping. Is this the kind of all-out attack that is indicated?

I say no. I say desperate situations call for desperate remedies. I say that partial measures will not solve this crisis. I say we must do no less than go to school every single day of the year. But that is not all. I say we must go to school 24 hours of every day!

The benefits of such a program are, as you can see, obvious. First of all, the classroom shortage will disappear because all the dormitories can be converted into classrooms. Second, the teacher shortage will disappear because all the night watchmen can be put to work teaching solid state physics and Restoration drama. And finally, overcrowding will disappear because everybody will quit school.

Any further questions?

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* * *

Yes, one further question: the makers of Marlboro, who sponsor this column, would like to know whether you have tried a Marlboro lately. It's the filter cigarette with a man's world of flavor. Settle back and enjoy one soon

Aptitude Test

1. If you went to bed at 8:00 at night and set the alarm to get up at 9:00 in the morning, how many hours sleep would you get?.....
2. Do they have a fourth of July in England?
3. Why can't a man living in Winston-Salem, North Carolina be buried west of the Mississippi River?
4. If you had only one match and entered a room in which there was a kerosene lamp, an oil burner, and a wood-burning stove, which would you light first?
5. Some months have 30 days, some have 31, how many have 28 days?
6. If a doctor gave you 3 pills and told you to take one every half hour, how long would they last you?
7. How many birthdays does the average man have?
8. A man builds a house having four sides and being rectangular in shape. Each side has a southern exposure. A big white bear wanders by. Where is the house?
9. What four words appear on every denomination of U. S. currency?
10. How far can a dog run into a woods?

Complete this test and save for next week when answers will be printed.

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Thornton Awarded Bowles Scholarship

The Blanche and John Bowles Scholarship at Missouri School of Mines and Metallurgy has been renewed to John C. Thornton for this school year. Mr. Bowles, an outstanding alumnus of Missouri School of Mines and Metallurgy, class of 1908, passed away this past June. Some years ago he and Mrs. Bowles established this scholarship to assist worthy students with outstanding scholastic records and personal qualities. He was a long-time resident of Lake Springs, Missouri and his death was a great loss to the entire community as well as to the college.

John C. Thornton, son of Mrs. Virginia Thornton, 806 Second Street, Belton, Missouri, is a senior in Electrical Engineering with 118 hours, 409 grade points for a 3.46 cumulative average. He has consistently appeared on the Dean's Honor List, received the Phi Kappa Phi Book Plate Award and the Gold Key Award, and is a member of Eta Kappa Nu and Tau Beta Pi Honor Fraternities. He is a member and corresponding secretary of Acacia Fraternity, a member of the ROTC Pershing Rifles, Society of American Military Engineers, American Institute of Electrical Engineers and American Institute of Physics.

MSM Alumnus Thought to Be Killed by Gas

St. Louis County authorities are investigating the mysterious death of William R. Muther, 55, a chemical engineer who worked with the Army's Bacteriological, Biological and Chemical Research Center. Muther died in Kirkwood, Missouri, September 15. He worked with toxic gases and chemicals at the Edgewood Army Arsenal, Maryland.

An official stated the chemicals he worked with could cause death to anyone exposed to them. St. Louis County Coroner Raymond I. Harris stated, following an autopsy, "There is no evidence of physical injury or disease that would be fatal. We are contacting the Army to find out what chemicals to test for."

Muther had been employed by the Army for 23 years. He attended Webster Groves High School before majoring in chemical engineering at MSM. He was not married.

Starting Salaries for The Graduating Senior

Monthly starting salaries for graduates with degree of Bachelor of Science graduated May 26, 1963 (All salaries based on 40-hour work week.)

	LOW	AVERAGE	HIGH
Ceramic Engineering	\$545.00	\$576.00	\$629.00
Chemical Engineering	525.00	580.00	665.00
Civil Engineering	507.00	568.00	650.00
Electrical Engineering	550.00	610.00	675.00
Mechanical Engineering	525.00	570.00	650.00
Metallurgical Engineering	554.00	592.00	675.00
Metallurgical Engineering—Nuclear Option	575.00	600.00	615.00
Mining Engineering	535.00	550.00	585.00
Mining Engineering—Petroleum Option	525.00	562.00	600.00
Science—Chemistry	500.00	550.00	600.00
Science—Mathematics	515.00	547.00	593.00
Science—Physics	550.00	590.00	650.00
Science—Geology	475.00	528.00	580.00

Class Average — \$575.00

M. S. Degrees — Average \$732.00

NOTE: Certain salaries are omitted in computing averages as not being indicative of present rates. These salaries are for army officers, civil service, teaching, graduate studies, and foreign employment.

LITTLE MAN ON CAMPUS



"I SUPPOSE YOU'D RATHER I GOT A DIFFERENT LAB PARTNER?"

Registrar Looking for Tardy Students

Students who have not turned Rolla addresses in to Registrar's office.

Robert Breeding
Philip Chastain
Chao Ping Chu
James Deatherage
William Downing
Gary Fancher
Alan Foreman
Roger Hudson
Richard Kelley
Thomas Knapstein
James W. B. Lu
Richard Mantia
Jon McNerney
Tim No Ton
Ronald Piro
Melvin Rutledge
Roger Thomas
Robert Voytek
Peter Cheng F. Wang

DEAN'S BREAKFAST

(Continued From Page 1)

no plan of this sort had yet been proposed for MSM.

Concerning the possible expansion of the academic program of MSM, the Dean said that he was "not in favor of a compulsory five-year program." The opportunity, however, of added semesters of study on a non-compulsory basis would give some students a greater opportunity for an expanded education background.

"The present ROTC program at the Missouri School of Mines," said Dr. Baker, "is one of the finest in the country." For this reason there seems to be no action needed in adding other branches of the service to the present system. Dr. Baker said that neither the Air Force nor the Navy has approached the school concerning installment of officer training schools on this campus.

It is felt by the Student Council that the questions raised in this discussion session were one of pertinence to the school and the students within the school. The Student Council hopes that the student body has benefited from this presentation of current problems and ideas, and the council extends its appreciation to Dean Baker for his effort to help inform the students of MSM.

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MINER SPORTS

FRIDAY, OCTOBER 11, 1963

THE MISSOURI MINER

PAGE 7

Silver and Gold to Open MIAA Play Against Cape

By Tom Johnson

The Missouri Miners begin their MIAA conference season this Saturday in a Parents Day contest against Cape Girardeau. A comparison of the records of both teams thus far could give some insight on the game tomorrow. After three games (the games last week are not included) the records show that Cape leads the Miners in most departments.

The Indians have scored 39 points to MSM's 19. Cape also has 325 yards rushing to the

Miners 134. Departments where the Miners do lead are yards passing and opponents yards rushing. MSM has gained 299 yards through the air as compared to the Indians 209 yards. The opponents of Cape have made 757 yards on the ground against the Miner opponents' 721. Neither Cape nor the Miners has an outstanding scoring leader. The touchdowns made by both teams were spread throughout the squad.

Each team has a man among the rushing leaders in the conference. The Miners' George Gasparovic has made 43 yards in 8 tries for a 5.4 yard rushing average while Dockins of Cape has carried 46 times for 232 yards and an average of 5.1 yards. Dockins will be the man to watch in the Cape offense Saturday.

Both MSM and Cape have fine passers and pass-receivers. Lane of the Indian squad has thrown the ball 33 times, completing 15 for a 45.5% average. Jay Alford, quarterback for the Miners, has attempted 66 passes and completed 27 for a 40.9% average.

The Miners have had several men make good on the receiving end of passes. Gasparovic has caught 7 for 57 yards, Welch 6 for 49 yards, Mullen 5 for 58 yards, and Erxleben 4 for 66 yards. Brown of Cape has caught 6 for 77 yards and his teammate Kelley 6 for 37 yards.

The caliber of teams that each has opposed, however, cannot be accurately equated. This, coupled with the fact that anything can happen in a football game, may lead to quite an exciting battle.

NEWS OF THE WEEK

(Continued From Page 5)

resulted in the death of four Negro girls. This action by Alabama state police appears to have surprised city police and the FBI.

Cuba: Premier Fidel Castro accused the U. S. of "tightening the economic noose," and called for Cubans to fight for survival without depending on Russian aid.

Miners Lose Fourth Straight In 32-7 Loss to Martin Branch

A strong Martin of Tennessee offense stopped the Missouri Miners cold last Saturday, by the score of 32-7. The lone MSM touchdown came in the final minutes of the game, as Bill Couse crossed the Martin end zone. Bob Leone kicked the point-after-touchdown for another tally, making a total of 7.

Two of Martin's five touchdowns came as a result of rushing. The remainder came on passes. The Vols attempted a total of 15 passes and completed 10 of them for a percentage of .667. The silver and gold of Missouri School of Mines threw 16 passes, however only 4 were complete. This unusually poor exhibition resulted in a percentage of .250. Bob Wheeler tried 10 passes, completed 4 of them, had two intercepted, and ran up a total of 58 yards. Jay Alford tried 6, but none were connected.

The Miners totaled 197 yards in rushing, as compared to Martin of Tennessee's 261. Seventeen first downs for Gale Bullman's squad was second to UTMB's 21. Martin, however, was penalized for 60 yards, and the MSM club only 25.

Bob Erxleben punted 4 times

for a total of 130 yards gained. This is an average of 32.5. The Tennessee players totaled 106 yards on only 3 punts for a 35.3 average.

Four game totals for this season show that the Miners have scored 26 points as compared to their opponents' total of 106. Erxleben is leading the Silver and Gold with 2 touchdowns, and Couse and Gasparovic each have one to their credit. Leone has made 2 PATs. As far as rushing goes, the Miners have a net gain of 331 yards. This is a far cry from the opposition's 964 yards.

In passing, Alford leads all Miners with 27 completed out of 72 attempts. The total yardage for Jay's passing amounts to 270 yards. Wheeler has tried 28, with 7 of them being complete. The total yardage for MSM passing is 357, while the other teams' total is 446 yards. The Miner eleven have had 51 first downs and the opponents' have had only 15 more than that total. The men from MSM apparently play quite fair. This is shown by a total of only 156 yards lost to penalties, while the opposition has totaled 335 yards.

"Experience is the best teacher"

is the old saying, and the students at Missouri School of Mines hope that the Miner football squad has this in mind as MIAA conference play starts Saturday.

SIDELINES

by Bruce T. Gregg

For some twenty years MSM has been giving courses in Physical Education and the Athletic Department has been restricted from giving credit for the subject. The accepted argument behind this has to some degree a basis. The fact is that MSM requires more credit hours for graduation than most schools throughout the country. By giving credit for Physical Education, this required number of hours would just be increased and the general consensus of opinion is that we lower the number of hours needed now. Thus we see the conflict, but still the average student who doesn't look into these matters is just faced with the fact that he is required to take a subject and is given absolutely no credit at all for it. The thing of it is, the school is required to give the course and with the facilities available, they do a pretty good job.

MSM, through the Athletic Department, requires that all incoming Freshmen, during the Fall Semester, take Physical Education. The classes range up to 150 students each. The extent of the course is instruction in swimming, if an individual does not have the ability to begin with, and films on assorted subjects such as first aid, swimming, diving, wrestling, and boxing. This comprises the one hour a week course. Believe it or not this is a requirement for graduation and must be taken by all. The Athletic Department also offers a second Phys. Ed. class, voluntary basis only, again with no credit. This is held the second semester for individuals who are still unable to swim and are interested in learning the fundamentals about various sports. The school via the Athletic Department puts a lot into the Intramural Program and considers it the main vestage of the Physical Education requirement set by the National Athletic Association. It is a well established fact that MSM has one of the best Intramural Programs in the country.

The question arises again, is there a need for the required Phys. Ed. course. True individuals get a chance to swim, but the large majority of men already know how, and what they might learn in the presented films is all but forgotten by the time they get to the next semester. Now as far as the Intramural Program goes, it is something vital to this campus and it can well be classed as Physical Education. Here an active part can be taken by all, and the purposes of Phys. Ed. are truly met.

Theta Chi	6	10
Sigma Pi	6	10
Lambda Chi Alpha	4	12
Beta Sigma Psi	0	16
Sigma Nu	0	16

High Single

Albrecht	256
Arnold	220
Polka	214
Overleas	213
Latham	204
Putz	200
Kamp	195
Greitzu	192
Ferguson	192
Kruse	191
Stine	190
Howard	186
Adams	185
Schoenic	185

High Triple

Albrecht	639
Arnold	606
Overleas	569
Polka	554
Howard	539
Schoenic	538
Latham	530
Kamp	527
Putz	525
Adams	509
Stine	504
Greitzu	503
Ferguson	503
Kruse	502

Jr. Varsity Rifle Team Selects Squad Members

The Freshmen and Upperclassmen members of the MSM Junior Varsity Rifle Teams for the 1963-64 school year have been announced by Colonel Glenn R. Taylor, Professor of Military Science.

The Junior Varsity A Squad consists of the following: 1st Team, Carpenter, R.; Christiansen, D.; Churchill, M.; Doerr, E. E.; Estill, G.; Hamm, W.; Massey, D.; Morfeld, B.; Schmitt, K.; Stanton, G.; Sundermeyer, M.; and Tate, M. B. 2d Team, Guile, T.; Hollowell, W.; Johnson, Bob; Kloepper, R.; Leaming, D.; Lee, P.; Moss, J. M.; Pomeroy, W.; Rapley, G.; Rezsonya, T.; Wills, J.; Woolsey, P. 3d Team, Baer, K.; Bubash, J.; Hallett, M.; Harper, B.; Jasper, R. D.; Rathburn, D.; Slocum, J.; Stambaugh, P.; Stettes, R. E.; Vrlenich, N.; Warren R.; and Wright, G.

Members of the Junior Varsity B Squad, are: 1st Team, Altman, R.; Bayless, J.; Guest, C.; Hall, R.; Hayes, T.; Johnson, P. E.; Luzniak, R.; Pruitt, B.; Rose, F. M.; Sims, C.; Statkus, F.; and Steinbrueck, G. 2d Team, Bruenies, R.; Cadwell, T. L.; Elgin, D. K.; Harvey, S.; Johnson, O.; Judlowe, M.; Kelly, P.; Mezines, S. A.; Rothermich, D.; Vedder, R.; Zavinsky, J.; and Zoellner, L.

The above students were selected from almost 100 participants who competed against each other in the Junior Varsity Rifle Team tryouts during the week of September 30th through October 4th. The Junior Varsity rifle teams began practice on October 7th and will continue practice sessions un-

til December. Beginning in December competitive shooting will commence against a schedule of other Junior Varsity teams from colleges and universities throughout the United States. Shoulder to shoulder as well as postal matches will be fired.

The Junior Varsity Rifle Teams are jointly sponsored by the Athletic and Military Departments. Team Captains will be elected during the month of November. Major John R. Short, Jr., Military Department, is the Marksmanship Advisor.

Interfraternity Bowling Results

Results

Phi Kappa Theta won 8 from Kappa Alpha. Kappa Alpha won 8 from Theta Xi. Acacia won 8 from Sigma Nu. Sigma Phi Epsilon won 8 from Beta Sigma Psi. Triangle won 8. Pi Kappa Alpha won 8. Delta Sigma Phi won 6 from Theta Chi. Sigma Tau Gamma won 6 from Lambda Chi Alpha.

League Standings

Team	W	L
Phi Kappa Theta	16	0
Sigma Phi Epsilon	14	2
Triangle	14	2
Delta Sigma Phi	12	4
Kappa Sigma	10	6
Pi Kappa Alpha	10	6
Acacia	10	6
Theta Chi	10	6
Kappa Alpha	8	8
Sigma Tau Gamma	8	8

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TOP 20 TEAMS

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

1 - OKLAHOMA	6 - PENN STATE	11 - GEORGIA TECH	16 - NORTHWESTERN
2 - WISCONSIN	7 - NAVY	12 - ARKANSAS	17 - L. S. U.
3 - TEXAS	8 - MISSISSIPPI	13 - MICHIGAN STATE	18 - OREGON STATE
4 - ALABAMA	9 - OHIO STATE	14 - OREGON	19 - MISSOURI
5 - NEBRASKA	10 - SOUTHERN CAL	15 - MINNESOTA	20 - MEMPHIS STATE

Friday, October 11, 1963

L. S. U. 20	Miami, Fla. 9
Navy 21	S. M. U. 10
Ottawa, Kansas 13	Emporia College 6
Syracuse 24	U. C. L. A. 6
V. P. L. 24	George Washington 7

Saturday, Oct. 12 — Major Colleges

Alabama 21	Florida 9
Arizona 20	Texas Western 19
Arkansas 14	Baylor 7
Auburn 30	Chattanooga 0
Boston College 14	Viduaova 0
Bowling Green 18	Western Michigan 0
Buffalo 23	Marshall 0
Citadel 23	Presbyterian 7
Colgate 21	Rutgers 13
Columbia 18	Yale 7
Dartmouth 19	Louisville 13
Dayton 25	California 8
Duke 17	Wake Forest 0
Florida State 40	Pacific 20
Fresno State 21	Wofford 6
Furman 24	Clemson 0
Georgia 14	Tennessee 7
Georgia Tech 19	Cornell 7
Harvard 17	Boston U. 8
Holy Cross 17	Texas A & M 7
Houston 9	Montana 20
Idaho State 14	Iowa State 7
Indiana 21	Detroit 0
Kansas 17	North Carolina 21
Kentucky 17	North Texas 7
Maryland 22	Kent State 7
Memphis State 39	Michigan 7
Miami, Ohio 13	Michigan Tech 15
Minnesota 17	Tulane 0
Mississippi State 19	Kansas State 0
Missouri 34	Air Force 6
Nebraska 14	Trinity, Texas 6
New Mexico State 27	South Carolina 9
North Carolina State 20	Illinois 7
Ohio State 22	Toledo 8
Ohio U. 20	Texas 15
Oklahoma 17	Colorado 7
Oklahoma State 15	Washington 7
Oregon 20	Army 7
Oregon State 20	Princeton 10
Penn State 18	Stanford 9
Princeton 20	Notre Dame 10
Rice 20	Richmond 6
Southern California 14	Texas Tech 7
Southern Mississippi 14	Cincinnati 15
T. C. U. 25	Brigham Young 7
Tulsa 20	New Mexico 7
Utah 23	Y. M. I. 7
Utah State 15	San Jose State 6
Virginia 14	Arizona 20
Washington State 14	William and Mary 13
West Texas 25	Hardin-Simmons 0
West Virginia 17	Purdue 7
Wichita 28	Colo. State U. 0
Wisconsin 20	
Wyoming 31	

EAST (small colleges)

Bucknell 30	Ohio Wesleyan 0
California State 13	Slippery Rock 14
Coast Guard 13	Westleyan 7
Delaware 53	Lafayette 0
Drexel Tech 12	Lycoming 0
Grove City 21	Brockport 6
Hamilton 15	Holart 12
Hofstra 12	Bridgeport 0
Ithaca 18	Cortland 7
Lehigh 12	Gettysburg 8
Massachusetts 22	Connecticut 6
Northeastern 25	American International 0
Rochester 14	Union 12
St. Lawrence 19	Alfred 13
Shippensburg 21	Lock Haven 12
Susquehanna 16	Junata 13
Temple 15	Muhlenberg 0
Trinity, Conn. 20	Tufts 0
Ursinus 13	Johns Hopkins 0
West Chester 33	Bloomsburg 0
Wilkes 14	Penn Military 6

MIDWEST (small colleges)

Adrian 23	Olivet 6
Akron 36	Heidelberg 0
Ball State 20	St. Joseph 14
Carroll 31	North Park 13
Central Michigan 20	Northern Michigan 17
Concordia, Neb. 27	Yankton, S. D. 0
Defiance 14	Northwood 7
Drake 18	Iowa State College 15
East Central Oklahoma 21	Central Oklahoma 10
Findlay 18	Ferris 0
Gustavus Adolphus 18	Hamline 0
Hope 21	Albion 8
Indiana State 18	Hastings 0
Kalamazoo 12	Wilmington 6
Kearney 25	SE Oklahoma 6
Kenyon 16	Duluth (U. of Minn.) 13
Langston 21	Michigan Tech 7
Macalester 25	Sioux Falls 0
Peru 12	St. Mary 0
Missouri Valley 35	South Dakota U. 0
Morningside 20	Mt. Union 7
Muskingum 30	Central Missouri 0
NE Missouri 30	SW Oklahoma 13
NE Oklahoma 23	Hillsdale 8
Northern Illinois 27	Bluffton 14
Ohio Northern 19	Fort Hays 13
Omaha 25	Guilford Vista 0
Parsons 21	Doane 0
St. Thomas 17	Concordia, Minn. 14
Simpson 21	William Penn 6
SE Missouri 26	Missouri Mines 7
Southern Illinois 14	Lincoln 0
Southwestern, Kan. 13	Dakota 0
Taylor 12	Manchester 0
Valparaiso 14	Washington, Mo. 13
Wabash 38	Hanover 0
Washburn 20	Emporia State 6
Westmar 34	Central Methodist 6
Whitewater 33	Capital 0
Youngstown 21	Southern Connecticut 13

SOUTH (small colleges)

Ablene Christian 17	NW Louisiana 7
Bridgewater 14	Frostburg 6
Catawba 20	Western Carolina 19
Delta State 23	Troy State 0
East Carolina 27	Elon 0
Frederick 20	NE Louisiana 7
Howard 15	Appalachian 19
Lenoir-Rhyne 20	Livingston 8
Martin (U. of Tenn.) 26	Tampa 0
McNeese 20	Eastern Kentucky 7
Middle Tennessee 25	Southwestern, Tenn. 7
Millsaps 13	Murray 14
Morehead 22	Lamar Tech 15
S. F. Austin 20	Howard Payne 6
Sam Houston 21	McMurry 0
Southwest Texas 13	East Tennessee 0
Tennessee Tech 20	Centre 0
Washington & Lee 26	Concord 13
West Liberty 14	Anderson 12
West Virginia State 13	Bluefield 0
West Virginia Tech 30	Austin Peay 0
Western Kentucky 26	Randolph-Macon 7
Western Maryland 19	

FAR WEST (small colleges)

Arizona State (Flag.) 24	New Mexico Highland 6
Cal Poly (Pomona) 27	Los Angeles 7
Cal Poly (San Luis) 12	Cal Western 6
Claremont 19	Cal Lutheran 12
Colorado State 13	Colorado College 7
Colorado Western 28	Adams State 13
Davis (U. of Calif.) 18	Chico State 0
Eastern New Mexico 23	Western New Mexico 0
Humboldt 31	Redlands 0
Montana State 42	Weber 0
Nevada 12	Whittier 19
Occidental 14	San Fernando 6
Pomona 19	LaVerne 7
Riverside 21	Cal Tech 0
San Diego State 32	Long Beach 0
San Francisco 21	Santa Clara 8
Santa Barbara 14	Sacramento 12

Oklahoma Takes Top Spot, Wisconsin to Top Purdue

There was a lot of scrambling around on the national ladder this week, even though a majority of the top teams did about as expected. Baylor, Notre Dame, and T. C. U. are among the missing while L. S. U., Minnesota, and Oregon crept in hoping to stay awhile.

Oklahoma and Wisconsin didn't even bother to put on their uniforms, yet moved into the No. 1 and No. 2 spots in the country as Georgia Tech dropped all the way to 11th, and Alabama had more trouble than expected. Penn State really put on the climbing act, jumping from 20th all the way to 6th. Northwestern did the opposite—from 5th down to 16th.

So - the result as usual - some games this week that all heart patients should stay away from! And there's no better place to pick up a coronary than with Oklahoma-Texas. The Sooners have a power quotient of 111.5; the Longhorns, 109.4. With no additional fanfare, the edge goes to Oklahoma by two points.

The second-ranked Badgers will char the Riveters of Purdue by 13 points, and Alabama - in 4th this week - should whip Florida by eleven. Nebraska, No. 5, will probably put a few more holes in the once high-flying Air Force Falcons; the Cornhuskers by eight.

Next on the list for the "inexperienced" Nittany Lions: the

Black Knights of Army. And the Cadets will lose their second straight game, this one by 11 to Penn State.

Navy, enjoying the rarefied atmosphere of being Number 7 in the Country, will add to its prestige by clubbing Southern Methodist Friday night by 11 points. 8th-ranked Mississippi takes the week off while 9th-rated Ohio State takes on a real surprising undefeated Illinois. The Buckeyes are still the favorite, however. They should win by 15.

Tied up in the their straight-toughie, the Trojans of Southern Cal - ranked 10th - travel to the Midwest to meet Notre Dame. The Irish, two-time 4th quarter losers, and Southern Cal, beaten just once, will in all probability give the customers one of the best games of the day. However, for a winner, it will be Southern Cal by four points.

Taking a quick check on the crystal ball from last week, the figures look like this: there were a big 40 games missed, 121 picked correctly, 4 ended in a tie. So season's average is .758 figure from 434 right and 139 wrong.

Duke, Pittsburgh and Dartmouth are still undefeated, but un-ranked as far as the Harmon ratings are concerned. The Blue Devils are 17 points too strong for California, and the Ivy League Champion Indians will clip Brown by 29 points. Pitt - the day off

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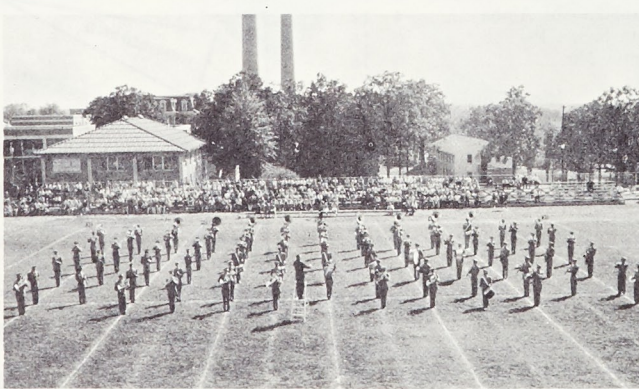
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Marching Band To Perform at Card Grid Game

The ROTC Band of the Missouri School of Mines and Metallurgy will perform at half-time at the opening home game of the St. Louis Football Cardinals, October 13th at Busch Stadium. The 84 member group is composed of men and women science and engineering undergraduate students from 15 states. The band program at the School is a joint effort of the School and the Department of Military Science, which sponsors the largest U. S. Army Corps of Engineers ROTC Unit in the nation.

This is the second performance at a Cardinal game for the band. Either concert or marching units of the band have appeared widely throughout the area. The crack group is under the direction of David L. Oakley.

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