



10 Apr 1964

The Missouri Miner, April 10, 1964

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NSF Awards MSM Funds For Research Program

A \$12,600 grant from the National Science Foundation for undergraduate research programs has been announced by Prof. E. W. Carlton, chairman of the Department of Civil Engineering at MSM.

Six undergraduate civil engineering students are engaged in the special research projects in the areas of structural engineering and soil mechanics. In addition to a stipend for the participants, the grant provides for the purchase of some equipment and partial payment of salaries for faculty members supervising the research. Research under the grant will continue for a period of 11 months, including 10 weeks during the summer.

The projects, which are under the direction of Prof. E. W. Carlton, are supervised by Louis G. Petro, professor of civil engineering, and Dr. Thomas Fry, associate professor of civil engineering.

Three investigations are in progress, with a two-man team assigned to each of the three problems. Topics under study are "An Analytical Method of Predicting Crack Propagation in Slabs," "Determination of the Magnitude and Location of Boundary Contact Forces of a Freely Supported Plate" and "Determination of the Effects of Electrochemical Stabilization on the Pure Clay Mineral Kaolinite."

This work is a continuation of NSF - sponsored undergraduate research in the department of civil engineering, Carlton said, with projects already completed in the areas of structural engineering, soil mechanics, fluid mechanics and sanitary engineering.

These programs have proven effective in stimulating and encouraging undergraduate students to continue their education at the graduate level, Carlton said, pointing out that eight of the twelve previous NSF - sponsored re-

(Continued on Page 5)

Keith Bailey Blue Key Man Of the Month

Blue Key honor fraternity has elected Keith E. Bailey as the March Man-of-the-Month. Keith, who is from Carrollton, Missouri, is one of the best known men on campus; he is especially known for his friendly smile.

Keith or "Jock" has received one of MSM's highest student honors in becoming this year's St. Pat. This honor St. Pat was in part due to the fine work he has done on the St. Pat's Board of which he is president.

He is a member of Lambda Chi Alpha social fraternity where he has served as secretary and alumni correspondent.

Keith is in mechanical engineering and has compiled a respectable grade average while at MSM. His scholastic achievements have gotten him the Rolla Lions Club Scholarship. He is a member of ASME and has held the offices of president, vice president and secretary in that organization. Al-



KEITH BAILEY

so in his department, he is a member of SAE.

On campus Keith is a member of Theta Tau of which he has been president and vice president and a member of Blue Key honor fraternity.

In varsity athletics Keith has lettered three times in football. He has also played three years of varsity basketball.

All of these achievements have led to Keith's election to Who's Who in American Colleges and Universities. It is obvious from this that Keith is well deserving of the honor of Man-of-the-Month.

Theta Chi Shows Corpuscle Muscle In APO Drive

The annual Blood Drive Contest, sponsored by Alpha Phi Omega Service Fraternity, was won this year by Theta Chi Fraternity.

Based on a possible percentage of 100 for each of the three blood drives, Theta Chi amassed a total of 201% of its members donating blood out of a maximum possible of 300%. They will receive the first place prize, a large traveling trophy and have earned the right to keep the trophy for the coming year.

Second place was taken by Phi Kappa Theta, with a total percentage of 135%, and Sigma Pi was third with 80%. Each will receive a permanent trophy.

The contest is sponsored in conjunction with the American Red Cross, whose bloodmobile visits Rolla approximately five times a year. Blood given by MSM students provides about 60% of the total number of pints given by Phelps County residents.

MSM Hosting Annual District Science Fair

Fifty-nine high schools are eligible to participate in the annual Central Missouri Science Fair to be held at MSM April 10 and 11.

The 18-county area will be participating in the eighth annual such event co-sponsored by MSM and the Rolla Daily News. The winner will be eligible to compete in the National Science Fair to be held in Baltimore, Md., next month.

Contestants must be in grades

VOLUME 50

ROLLA, MO., FRIDAY, APRIL 10, 1964

NUMBER 23

The Missouri MINER

MISSOURI SCHOOL OF MINES AND METALLURGY

Student Body to Have Final Word on Council Amendments

The Student Council has recommended thirteen amendments to its constitution. There are two reasons for these changes: first, to make the Council's Constitution conform to the "Constitution Check List," the Council has made the list available (through Dean Herskowitz's office) to new organizations writing a constitution or to existing ones revising their

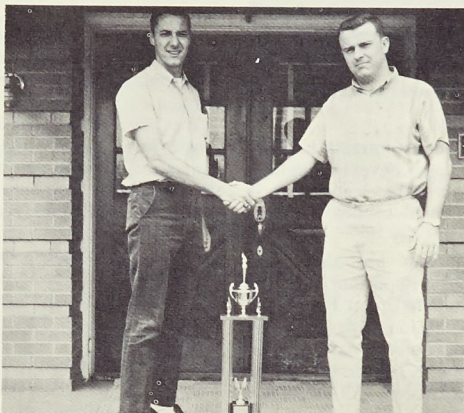
constitutions. This check list outlines the necessary items a constitution must contain to be approved by the Student Council and the Faculty; second, to change the basic structure of the Council by making it a smaller, closer-knit organization. The amendments would do away with the alternate representative system which exists now and would

provide a control over absences, which does not exist now.

Although the Council would be smaller, every organization would still have the same voting power and would be more assured of having a representative at the meetings due to the new absence rules.

A primary reason for making the Council smaller is the fact that next year there will be two more fraternities represented and consequently two more independent representatives. This would bring the membership of the Council under the present system to 72. The Council feels this many members for a governing body is too large to run smoothly and efficiently.

These recommended changes have been approved by the Student Council and by the Faculty (Continued on Page 5)



Rick Beckmann, President of Theta Chi, accepts first place trophy in APO Blood Drive, from Dennis Worley.

Underclassmen Found New Service Fraternity

FIRST SEMESTER FOR INTERCOLLEGIATE KNIGHTS

A new service fraternity, the Intercollegiate Knights, in a meeting February 11 approved their constitution and elected officers for the present semester.

The men who will lead this organization in its beginning stages are: Ken Bowels, duke; Warren Krueger, earl; Joe Kasten, chancellor; Jim Carter, scribe; Carl Westenberg, expansion officer; Truett DeGeare, page master; John Andesilich, recorder; Gary Rueter, executioner.

Intercollegiate Knights is an honorary service fraternity for undergraduates who have a cumulative 3.00 grade point and are in

the freshman or sophomore class at the time they are eligible for membership. It is primarily a service fraternity and already there are plans being made as to how they can "... establish, promote, and foster college spirit ... through service, sacrifice, and loyalty," as stated in their constitution. As their first major project they assisted in the officiation of the annual speech clinic held at MSM last Saturday.

The national program originated on March 13, 1922, from a local men's service group founded in 1919 at the University of Washington. This original organization was known as the "Knights of the Hook" and had much the same ideals of service, sacrifice, and loyalty. At first the program extended to include all universities and colleges of the Northwest and on the Pacific coast. Two years later the Intercollegiate Knights granted charters to petitioning bodies in the eastern universities.

Through the efforts of Prof. John M. Brewer, faculty advisor, and after several meetings of the founding members for organizing and planning the constitution, the "Osage" chapter of the Intercollegiate Knights will soon receive its charter and become a part of the national organization.

McKELVEY SELECTED

MSM Alumnus to Dean's Post at Washington Univ.

Dr. James M. McKelvey, an alumnus of MSM, will become the new dean of the Washington University School of Engineering, it was announced Saturday. His appointment is effective June 30.

McKelvey, who is at present chairman of the Chemical Engineering Department, received his B. S. in Chemical Engineering at the School of Mines in 1945. He graduated with first honors, ranking first in his class of 11. During his undergraduate days he was a member of Tau Beta Pi, Alpha Chi Sigma and Blue Key honorary societies. A member of Pi Kappa Alpha social fraternity, he was a member of the Interfraternity Council and the Student Council. He served as president of the Junior Class and was a student assistant in the Chemical Engineering Department.

Alaskan Tremor Registers on MSM Equipment

The Alaskan earthquake was recorded on MSM's seismographs, according to Gerald Rupert, instructor in geophysical courses in the Department of Mining Engineering.

The first shock was recorded here at approximately 9:44 p.m. Friday evening, and aftershocks have been recorded here almost continually since that time. The recorder on the seismograph which measures east-west movement of the earth went completely off the scale and didn't recover for 15 (Continued on Page 6)

LETTERS TO THE EDITOR

Students and Faculty Ignore "Professionalism"

Dear Sir:

I would like to take this time to inform the students of Missouri School of Mines that they are losing money — not in the sense of dropping coins on the streets, although they might as well, but by not attending and taking advantage of the programs provided through a portion of their student fees.

To cite an instance of this injustice, I would like to refer to the Student Union-sponsored panel discussion on April 2, concerning Professional Engineering and the upcoming EIT exam. Several high ranking engineers and the Asst. Attorney General of the State of Missouri presented views on the benefits of becoming a registered engineer. Even with a fine discussion group such as this, the program was marked by an unusually poor attendance.



Dean Baker and three distinguished speakers wait for an "overflowing crowd of deserving Miners."

I would like to see increased student and faculty interest in these programs, so that their purpose can be fulfilled. Several excellent programs are on the calendar. Probably the best foreseen event is the Hans Conried Lecture on April 30, to be held at the National Guard Armory because of its greater seating capacity.

With the faculty's assistance, Friday Forums are also being planned on a variety of topics. One of the most important of these will be the Forum on April 10, at which the Student Union Board will present a discussion on the Student Union Expansion Program. The Board will explain proposals up to date, and a student-participation question period will follow to enable the Board to formulate the opinions of the MSM students on the proposed expansion. All interested students are urged to attend.

J. Wayne Huckabee, President
Student Union Board

"Competition for Local Girls"

As a college student, I have seen many colleges and college towns. After coming in contact with the people of these various towns, I become more convinced that we Miners are fortunate for our relationship with the people of Rolla, especially the businessmen. Just as an example of an experience I had, a Warrensburg merchant asked me, as I was making a purchase, whether I was a student, teacher, or worked for my living.

However there is a revolt of some sort among the youth of Rolla. The unfortunate incident of a Miner being knifed in Frisco Park last week and a brawl caused by a group of Rolla boys following two Miners home and attacking them with beer bottles are acute examples of this problem.

Why this has come about can be attributed to many things such as the competition for local girls. This to me shows a very short sighted view on the part of these Rolla youths. I wonder how many of their fathers make a large percentage of their income because of the Miners. As a thought, if 2500 Miners stay in town for St. Pats and drop a very conservative sum of \$20 over \$50,000 is spent in this town in one weekend. This is not to mention the thousands of dollars spent each day. If each Miner spent only one dollar per day this would amount to \$3500 and taken over a nine month period this gives a grand sum of some \$810,000. It must be remembered that these estimates are an absolute minimum.

Apart from the monetary aspects, the school contributes a great deal to local welfare. Almost all fraternities take a special interest in the under privileged children as well as charities and local work projects.

In light of all these facts, I think any and all young Rolla residents should reevaluate his attitude toward Miners in general. This bad relationship must be nipped in the bud or it will certainly develop into something which will cause hard feelings not to mention if the trend of knives and beer bottles keeps up, injuries.

Jim Schnarr

Dear Editor:

For a school of approximately 3500 students and 250 faculty members, we were, for the first time in four years at MSM, ashamed of the showing made at the panel discussion on "Professionalism" on Thursday night, April 2. Out of the total school there were no more than 35 people present at the panel discussion, and this included the panel and guests. There was the enormous sum of four faculty members present. We thought the faculty was supposed to set a good example for the students! Damn poor example!! As for the students, why do you want to spend four to five years at this school if you don't seem to care about what your professional life *might* be like after graduation? All juniors and seniors should have been present as they are close to experiencing what was discussed. Freshmen and sophomores should also have been there. This might have given some of them, who do not know what an engineer is, a chance to find out.

We realize that this is the week of mid-semester, but nobody can tell us that only 0.5% of the student body was free that night. We have noticed that the movies Sunday night at the Student Union "always" have standing room only!

We feel that the distinguished panelists, guests, and Dean Baker, they are all very successful and eminent engineers, could not help but be discouraged at the attendance. It is indeed a shame that Dean Baker had to make apologies to the panel members for the overflowing crowd of students and faculty.

The Student Union Board is to be commended for their fine job in organizing this outstanding program.

We have seen articles in previous *Miners*, written by both students and faculty, to the effect that our education here at MSM is too technical, and yet the Student Body (99.44% PURE) will not attend a program designed to enlighten them on their future professional and civic responsibilities.

GOOD SHOW MINERS!!!

Sincerely,

3 Embarrassed Seniors
Edward M. Raney
James P. Odendahl
Kenneth E. Buttry

Miner Board To Take on New Regime

The Miner Board held its annual elections last Monday in the Student Union. After hearing the annual financial report read to the gathering, retiring editor Dave Blume opened the floor to nominations for the office of editor, business manager, and faculty advisor.

Greg Junge, who has served on the staff as past copy editor and layout editor, was chosen editor-in-chief for the 1964-65 school year. Elected to the office of business manager was Charles Hansen, this past year's secretary. Professor Moulder was re-elected to the position of faculty advisor.

Other posts on the staff will be appointed by the newly-elected editor within the next week.

MINER
MISSOURI SCHOOL OF MINES AND METALLURGY



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

The subscription is \$1.00 per semester. This Missouri Miner features activities of the Students and Faculty of M. S. M.

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Circulation Manager Jim Chase
Sports Editor Tom Johnson
Technical Advisors Gary Rueter, Dan Kasper
Secretary Larry Ramsey

Code of Operation

Realizing its duties to the students and faculty of the Missouri School of Mines and Metallurgy, and of its responsibility to this Institution, the editorial board of the MISSOURI MINER has adopted the following principles as its code of operation.

1. Complete coverage of every aspect of campus news will be presented. All news reporting will endeavor to present both sides of every controversy with each side receiving equal emphasis insofar as the news value of the story will allow.

2. The Editorial Board will reserve the right to give any position in the newspaper to any article without regard to pressure brought by various groups and with regard to the relative news value of the various topics available and their relevance to the campus as a whole.

3. The Editorial Board will consider for publication only those articles which are typed, double-spaced, unless the editor-in-chief has been informed before the deadline.

4. The deadline for an article to appear in the MINER is 12:00 P. M., Monday prior to publication.

5. The presidents of the Student Council, the Interfraternity Council, and Independents, and the heads of any other major campus organizations are invited to write open letters to the campus.

6. The opinions of members of the student body which are unsolicited or which are at variance with those of the Editorial Board will, within the limits of space, be presented in the "letters to the editor" column. The Editorial Board reserves the right to refuse the publication of any letter which it considers to be libelous, slanderous, or obscene, and to delete portions of these letters that are irrelevant and unimportant to the point in question. Each letter must be typed, double-spaced, signed, and not exceeding 750 words. Names will be withheld on request or at the discretion of the Editorial Board.

7. The opinions of the majority of the Editorial Board will be presented in unsigned editorials in the editorial section.

The members of the Editorial Board and the MINER staff are not obligated to any group or bound by any consideration except those of truth, the best interest of the school and its students, and their own consciences.

NOTICE!

STUDENT UNION DANCE

The Student Union will be sponsoring a dance Friday night April 17. There will be no admission, and they will be featuring the Road Runners who appear nightly at The Den in Columbia. The dance will be held from 8 until 12.

There will be a dance contest held at 10:30, and trophies will be awarded to the winners.



TO STUDY AND
REVIEW WITH

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SERIES

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Do You Meet Your Engineering Obligation?

"Every engineer has a responsibility to the profession, to himself, to his employers and the public, and to become registered." These were the words of Mr. Garvin Dyer, Past President of the National Society of Professional Engineers, as he spoke in a panel discussion on the Benefits of Professional Engineering last Thursday night. The program was sponsored by the Student Union Board and consisted on a preliminary film, followed by the panel discussion and a question and answer period.

Dean Merl Baker acted as moderator of the group, which included in addition to Mr. Dyer, Mr. Albert Stephan, Assistant Attorney General of the State of Missouri, and Mr. Howard Honefenger, Past President of the Missouri Society of Professional Engineers.

In speaking on his topic of "The Philosophy of Registration and Its Effect Upon the Engineering Profession," Mr. Dyer touched on the explosive nature of the profession, and the great demand for both quality and quantity of engineers in industry. More and more employers are requiring PE's, and as Mr. Dyer remarked, "By going through the registration process an engineer gains two important benefits: 1. He receives authority to practice his profession before the public; 2. It establishes his professional standing on the basis of legal requirements."

Mr. Stephan, who serves as an attorney for professional registration, elaborated on these "Legal, Ethical, and Reciprocal Aspects Within A Profession." Since his

office is responsible for police action relative to the state, he noted that practically every design, every operation, and every process undertaken by the engineer has public implications. Engineering, therefore, comes under the police powers of the state. When later questioned about the registration exam, Mr. Stephan mentioned that the exam was provided for in the state statutes, and he likened it to an attorney's bar exam in that "it seems to be rather widely accepted across the country as a means of determining your qualifications."

"All engineers must consider it a personal responsibility to have the ethical responsibility to adhere to a code of ethics or lose professional status," Mr. Honefenger used this phrase in describing "How Professional Engineering will Help the Individual Engineer." The Engineering Code accordingly deals with four elements: 1. Professional life; 2. Relations with the public; 3. Relations with clients and employers; 4. Relations with other engineers. Each of these must be closely adhered to in practice. Ethics makes your profession. Mr. Honefenger emphasized the fact that the need for registered engineers is increasing by leaps and bounds. There are approximately 300,000 professional engineers at this time, however, the National Science Foundation predicts that the U.S. demands for PE's will jump to 1,400,000 by 1970.

Following a summary by Dean Baker and the question and answer period, Professor Carlton of the Civil Engineering Department, (Continued on Page 8)

Dr. Colombo of Italy To Lecture on MSM Campus

Dr. Umberto Colombo, Director of Mining and Hydrocarbon Research Laboratories of the G. Donegani Research Institute of Italy, will be a visiting international scientist at Missouri School of Mines and Metallurgy on April 13-17. He is on a national tour sponsored by the American Geological Institute. During his stay in Rolla Dr. Colombo will give a series of lectures at the Department of Geology and Geological Engineering on his research in petroleum and mining exploration and production. He will also meet informally with students and professors and will visit the new Pea Ridge Iron Mine near Sullivan.

Dr. Colombo has done important research on the geochemistry of petroleum and related substances. He has organized and performed a systematic geochemical study of Italian oils and asphalts. Other work has been done on geochemical logging and prospecting for hydrocarbons. His study on "Differential Electric Log" won for him the Conrad Schlumberger Award of the European Association of Exploration Geophysicists for the year 1958. In the field of mining, Dr. Colombo is best known for his development of a new process for production of high grade iron oxides from iron pyrites. A large industrial plant based on this process and providing employment for 8,000 persons is now operat-

ing in central Italy.

The formal lectures to be given by Dr. Colombo while in Rolla are as follows: Monday, April 13, 4:30 p.m. — "Geological Economics in Italy"; Tuesday, April 14, 4:30 p.m. — "Geochemical Analysis of Oils and Asphalts"; Wednesday, April 15, 11:30 a.m. — "Recent Trends of Subsurface Geochemical Prospecting for Hydrocarbons"; Thursday, April 16, 4:30 p.m. — "Evolution of Petroleum." All lectures will be given in Room 305, Norwood Hall.

NOTICE

The Military Drill Field, Lot No. 7, will be closed for parking on Mondays and Fridays starting today. Parking will be permitted on Tuesdays, Wednesdays and Thursdays and at such time and such days that signs are covered.

COLLEGE SENIORS ONLY



Telephone 364-5417

NEWS of the Week

Alaska: The U. S. is devising a relief plan to help victims of the recent Alaskan earthquake. Edward A. McDermott, President Johnson's disaster chief, says that the damage is much worse than the original estimates of \$500,000,000. The quake killed over 100 persons. McDermott termed Alaska's problem "unprecedented" because many of Alaska's basic industries, such as fishing and canning have been greatly damaged. This means that many people will be without employment for some time, making rebuilding ever harder. President Johnson said that he will ask Congress for \$50,000,000 in relief to Alaska.

Brazil: Leftist-leaning Brazilian President Joao Goulart has fled to exile in Uruguay in the face of Brazil's anti-communist revolution. Over 1,000,000 people jammed the streets of Rio de Janeiro in wild celebration of the victorious rebels, who say they have acted to prevent a Cuban-type takeover of the country by communists. The provisional president is Ranieri Mazzilli.

Moscow: In an unprecedentedly bitter statement, the Soviet Communist party charged the Red Chinese with trying to run the entire communist movement in the world. The breach between the two countries could change the course of history. Pravda called the Chinese the "main danger" to communist unity. Russia also charged the Chinese with trying to alienate the Soviet Union from the communist party. The statement in (Continued on Page 7)

UPTOWN THEATRE

MOVIES IN CINEMASCOPE

Thurs., Fri., Sat. April 9-11
'Flight From Ashiya'
George Chakiris & Yul Brynner

Sun., Mon., Tues., Wed., Thurs.
April 12-16

Sunday Feature at
1:40, 4:20, 6:55, 9:30
Admission: Adults 75c
Children 35c

'Seven Days in May'

Burt Lancaster & Kirk Douglas

RITZ THEATRE

MOVIES ON WIDE SCREEN

Fri., Sat. Apr. 10-11
Saturday Continuous from 1 p.m.

'The Haunted Palace'

Vincent Price & Debra Paget

—PLUS—

'Five Branded Women'

Van Heflin & Silvana Mangano

Sun., Mon., Tues. Apr. 12-14
Sunday Continuous from 1 p.m.

'Wives and Lovers'

Van Johnson & Janet Leigh

—PLUS—

'The Terror'

Boris Karloff

Wed., Thurs., Fri., Sat.

April 15-18

Saturday continuous from 1 p.m.

'Girls! Girls! Girls!'

Elvis Presley & Stella Stevens

ROLLA DRIVE IN

REOPENING DATE

SATURDAY, APRIL 18

Rifle Team Scores First And Third in Sectional

The MSM varsity rifle team captured first and third places in the National Rifle Association's Intercollegiate Sectional matches held on the MSM campus, April 4-5. The NRA Rifle Sectional was one of several held throughout the United States to determine the National Intercollegiate Champions as well as the individuals for the All-American berths for school year 1963-64.

MSM members of the first place team were: Lloyd W. Bingham, team captain, Theodore E. Moore, Robert L. Hall, and Paul D. Winkel. Members of the MSM team taking 3rd place were Carl Steib, team captain, Randy McDonough, Mike Holkenbrink, and Jim O'Neal. Captain Ernest H. Martin, ROTC Department, is the varsity rifle team coach.

Team standings, schools represented, and scores attained during the NRA Sectional were: (possible 1200) 1. Missouri School of Mines, Team No. 1 1137; 2. Wichita University, Team No. 1, 1122; 3. Missouri School of Mines, Team No. 2, 1118; 4. Southern Illinois University, Team No. 1, 1112; 5. Southern Illinois University, Team No. 2, 1072; 6. Missouri

School of Mines, Team No. 3, 1072; 9. University of Tennessee, Team No. 1, 1069; 10. University of Tennessee, Team No. 2, 1058; 11. Wichita University, Team No. 2, 1053.

Individual winners were: (possible 300) 1. Charles V. Green, Southern Illinois Univ. 289; 2. Hoyt Hillman, Wichita Univ. 288; 3. Paul D. Winkel, Missouri School of Mines 287; 4. Jon D. O'Donnell, Southern Illinois Univ. 287; 5. James C. O'Neal, Missouri School of Mines 286; 6. Robert L. Hall, Missouri School of Mines 286.

In the special awards area for the match, Miss Patricia A. McAlpin, University of Tennessee, was the winner of the "high lady" medal; Team No. 1, Southern Illinois University, took the high ROTC Team medal.

Colonel Glenn R. Taylor, Professor of Military Science, and Athletic Director Gale Bullman, Chairman of the Athletic Department, co-sponsor the MSM varsity rifle teams. Major John R. Short, Associate Professor of Military Science, is the marksman-ship advisor.

MINERS

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WIN IN THE MARLBORO BRAND ROUND-UP CONTEST

PRIZES:

CONTEST CLOSING
Missouri School of Mines
April 17, 1964

WHO WINS:

Round-Up your empty packs.
Redemption and prize awards will be made at Tucker Sundries between the hours of 1:00 P.M. and 2:00 P.M., April 17.

RULES:

No entries accepted after 2:00 P.M.
Empty packs must be submitted in bundles of 50 to qualify.



MARLBORO ★ PARLIAMENT ★ ALPINE
PHILIP MORRIS ★ PAXTON



Bill Mueller College Bowling Tourney Features Don Owens as Banquet Speaker

The Bill Mueller College Bowling Tourney is slated for two upcoming weekends; April 18 and 19 and April 25 and 26. If your entry is not already in, Miners, by all means get it in as soon as possible. Remember, any student enrolled in the Missouri School of Mines is eligible, whether he bowls for an average or not. The entry deadline is Tuesday, April 14 at 12:00 P. M.

The man responsible for the whole affair is Mr. Bill Mueller, the local Falstaff distributor. An alumnus of MSM, Bill has been looking for something to give MSM students in gratitude for the years he spent here. So he is sponsoring this for the students own

enjoyment. Over four hundred dollars worth of prizes, a special banquet for all entrees the night of the tournament's close, and a free gift for everyone attending are all part of Mr. Mueller's program. The only expense per entry is the cost of bowling six games required.



DON OWENS

The banquet will feature Don Owens, defensive guard for the St. Louis Football Cardinals, as guest speaker. A professional bowler will also be on hand to answer any questions you might have

a cash award of two-hundred dollars.

The April meeting is the "Student Activity" annual meeting, and vice-chairman, Mr. R. C. Bueler, has put together a particularly timely and interesting program.

Guests will be Prof. A. J. Miles, Chairman of the MSM M. E. Department; Prof. G. R. Baumgartner, Asst. Professor of the M. E. Department at MSM; Prof. L. Z. Seltzer, Dean of Parks Air College; and Prof. F. H. Meyers, Faculty Advisor, Parks Air College.

Rugby Evades Big-Time Pressure on Individual

In this age of lucrative sports, rugby football stands forth. This game is only for fun. In fact, most of the expenses incurred during the course of play are paid for by the players. This aspect of the game serves to eliminate all of the tenseness incurred by the influence of money. In short, there is no big-time pressure on an individual, playing the game, to win, win, win.

Another key appeal of rugby is its fraternity spirit. While in most sports one can play against an opponent without getting to meet him. In rugby there is usually a congenial mixing of spirits after each match.

This may well explain the fast rise of England's traditional sport in the United States. A decade ago there were few clubs in this country. Today there are more than 200. Most large colleges have several clubs; the game is booming in the Midwest, where the Missouri Rugby Football Union plays weekly and stages an annual series with the Ontario League and many Eastern teams.

The game itself, to the uninitiated observer, seems to be a free-for-all. There are incomprehensible tactics being employed all over the field.

The players are without pads of any kind. In the same Spartan tradition there are no substitutions during each forty minute half. If a player becomes injured, his side plays without him. Despite all this, there are remarkably few injuries.

Rugby might best be described as a combination of soccer and American football. There are fifteen players on a side — eight in the scrum and seven in the backfield. In direct contrast to football, no downfield blocking or forward passing is allowed. Any teammate behind the ball carrier is eligible as the ballcarrier is, to run, to kick, or to lateral the ball at any time.

The offense is a flanking movement by the backs, and defense is man to man. Also, any member of a team can score.

Rugby had its origin in 1823, during a soccer match at Rugby School, England. In this memorable contest, a frustrated player, William Webb Ellis picked up the ball and carried it to the goal. When criticized by his teammates, he founded a game of his own, in which the ball could be legally carried, and named it after the school.

about the game itself. The meal is all part of the affair and it is accompanied by as much Falstaff as you can drink. Mr. Northern, Rolla's mayor, and Dean Baker will also be on hand to say a few words.

A large plaque will also be awarded to the organization on campus with the most entries in the tournament. So, if you haven't gotten your entry in as of yet, do so immediately. You have a chance to win a trophy in all school tournament, whether you bowl for an average or not. And remember, the success of the function for yourselves in getting future events of the same high caliber depends upon your support. Get your entry in now!

Entry blanks and any farther information may be obtained at either ABC or Colonial Lanes, or any eating club or fraternity.

Dr. Karl Fethers Speaks at Joint Meeting of Mets

Dr. Karl L. Fethers, national president of the American Institute of Mining, Metallurgical and Petroleum Engineers, spoke at a joint meeting of the three student chapters at 7 p.m. Wednesday, March 25, in the lecture room of the Metallurgy Department. Dr. Fethers spoke on "1964: Year of Decision in Mineral Engineering".

He also presented the first showing of a new motion picture entitled "Letter to Youngstown".

Preceding the lecture, officers and faculty advisors of the student honored Dr. Fethers at a dinner at 5:30 p.m. at the Colonial Village. Dr. Fethers spent the afternoon in conference with student officers and faculty advisors of the AIME.

Dr. Fethers, vice president of research and development of the Youngstown Sheet and Tube Company, is a graduate of Carnegie Institute of Technology and Massachusetts Institute of Technology. He received a B. S. in



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metallurgical engineering in 1931, and his doctor of Science degree in 1940.

From 1941 to 1943 he was assistant professor and a staff member of the Metals Research Laboratory at Carnegie Institute of Technology and was in charge of the Office of Scientific Research Development project on seamless gun tubes.

He returned to Youngstown in 1943 as special metallurgical engineer on the staff of the operating vice president; was appointed assistant to the vice president in charge of operations in 1950; became assistant vice president in 1956 and vice president, Research and Development, in 1959.

He has been active in committee work of the American Society for Metals serving on the National Educational Committee (chairman for one year), several national nominating committees and other special committees. In 1949 when the Mahoning Valley Chapter of the American Society for Metals established the Marcus A. Grossman lecture, he was chosen to be the first lecturer. He served a two-year term as a National Trustee of the American Society for Metals, and in 1955 represented the A.S.M. at the joint Metallurgical Conferences in Europe. He was chairman of Mahoning Valley Chapter, American Society for Metals in 1958-59.

In 1948 he and J. L. Mauthe, former chairman of the Board of the Youngstown Sheet and Tube Company, received the American Iron and Steel Institute medal for their paper on "The Mineralogy of Basic Open Hearth Slags".

Blue Key Will Hold Society of The Year Contest

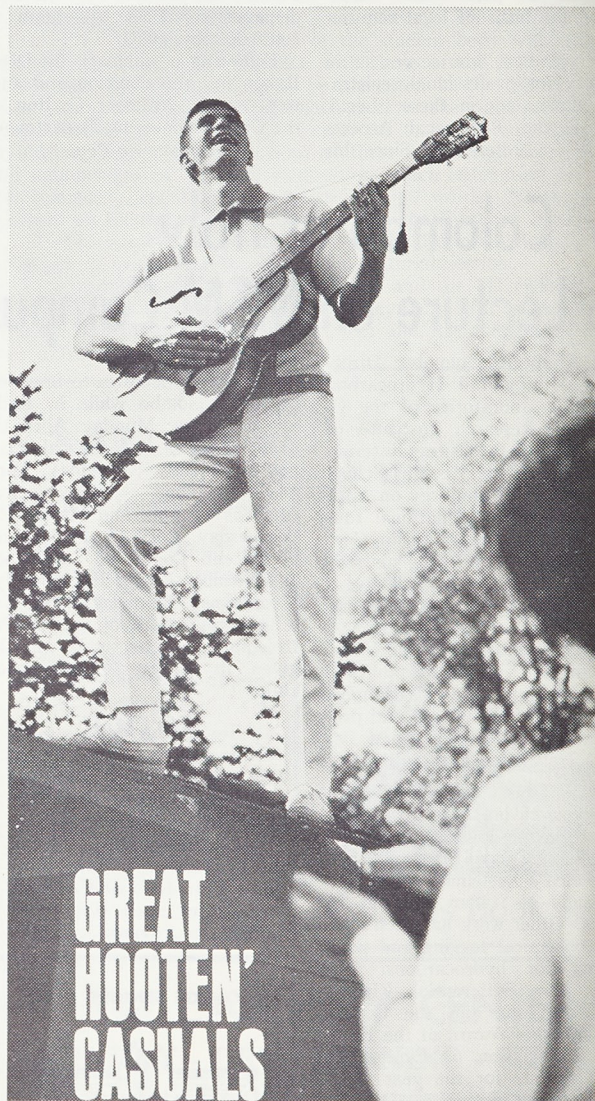
The annual Professional Society of the Year contest, held among all professional societies on the MSM campus, is once again being sponsored by Blue Key National Honor Fraternity.

The award is based upon several categories, among which are active participation of members, prominent speakers at meetings, field trips, overall service to members, and awards of members. Selection of the winning society is by an impartial faculty committee.

Society presidents are reminded that the deadline for entries is April 16. All entries must be in the Blue Key mail box in the Student Union on or before this date in order to be eligible.

Last year's winner was the Mining Section of the American Institute of Mining, Petroleum, and Metallurgical Engineers, and the first place trophy, a plaque with the winning society's name engraved on it, is currently on display in the Mining Building. Each winning society earns the right to display the plaque for one full year.

The overall purpose of the contest, besides recognizing the outstanding professional society on campus, is to attempt to better the professional societies on the MSM campus, and to make them of more service to their members.



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PROPOSED AMENDMENTS

Present Constitution

ARTICLE I Name

The name of the organization shall be "The Student Council of Missouri School of Mines and Metallurgy."

ARTICLE III

SECTION 3. One alternate shall be elected for each member. Alternates shall be elected in the same manner as prescribed for members, and they shall be governed by all regulations governing members except where otherwise expressly stipulated in the Constitution.

SECTION 4. Members shall take office at the last regular meeting in the month of April and shall serve during the ensuing school year.

SECTION 5. Any organization may replace the member (or alternate) who represents it on the Council upon delivering notice to that effect to the Council one month in advance, or such replacement may be made immediately upon consent of the Student Council.

SECTION 6. Any member deemed unfit by the Student Council may be impeached by a two-thirds vote of the total membership of the Student Council.

SECTION 7. If an active member drops off the council, his alternate immediately moves up to regular member, and has all rights and privileges of a regular member.

SECTION 8. Alternates may attend all meetings of the Council but they will have no vote unless serving in the place of an absent member, but may have power of debate.

ARTICLE IV

SECTION 2. If a student be brought before the Faculty Discipline Committee for disciplinary action, he may request that his case be reviewed by the Student Council which group shall review the case and then submit its recommendation to the Faculty Discipline Committee.

A student whose actions are being considered by the Faculty Discipline Committee may request the president of the Student Council to appoint two members of the Council to serve as representatives of the Council at the meeting of the Faculty Discipline Committee at which the case of the student who made the request is being considered. Upon receipt of such a request the president of the Student Council shall make the appointments and the appointees shall attend the meeting mentioned, having the right to speak but not to vote.

SECTION 7. If a student be brought before the Faculty Traffic Committee, he may request that his case be reviewed by the Student Council, who shall review the case and then submit its recommendation to the Faculty Traffic Committee.

ARTICLE V

SECTION 1. The officers of this Council shall consist of a President, Vice-President, Secretary, Treasurer, Executive Committeeman, and faculty advisor to be elected by a simple majority of the Council members present.

The duties of these officers shall be as follows:

The president shall act as chairman of all meetings; he shall be responsible for the carrying out of all rulings of the Council; he shall appoint such committees as are necessary to do the work of the Council; he shall represent the student body in all matters which lend themselves to individual representation. The president shall also be a voting member of the Faculty Traffic Committee.

SECTION 2. There shall be a faculty advisor elected by the Student Council who will have the right to attend meetings of the Council but shall not vote. He shall have the right to speak. He shall co-sign with the president requisitions and vouchers for expenditures by the Council, and shall be a member of the Executive Committee of the Council.

SECTION 3. The officers of the Council shall be elected by the new council at the first meeting of the new council, the president of the retiring council presiding.

SECTION 8. Any officer elected shall have been an alternate or regular member at least one semester previous to the election.

ARTICLE VI

SECTION 1. There shall be an Executive Committee of the Student Council and this Committee shall attempt to formulate policy for the Council as a whole, it being understood that the actions of the Executive Committee shall be subject to approval of the Council. The Executive Committee shall be composed of the president, vice-president, secretary, treasurer, executive committeeman and then faculty advisor who shall have the right to speak but not to vote. The chairman of this committee shall be elected by a simple majority vote of the members of the Executive Committee.

BALLOT

I AM

☐

IN FAVOR OF

☐

OPPOSED TO
THE PROPOSED
AMENDMENTS TO
THE STUDENT COUNCIL
CONSTITUTION.

RESULTS OF CHANGE

(Continued From Page 1)

with the stipulation that they be approved by a vote of the Student Body, as is required by the Council's Constitution.

Approval by two-thirds of those students who vote is necessary for ratification.

If you have any questions, contact your Student Council representative. Ballot places will be provided in the Student Union by the candy counter. Balloting will be held on April 17 from 11:00 a.m. to 5 p.m.

"Heritage Hour" To Begin on KMSM

Below is a schedule of MSM's Heritage Hour. Many students and Rolla residents have expressed a desire for a program schedule so that they may plan to listen to certain programs.

Beginning April 11, KMSM-FM will present on the Heritage Hour, a series of compositions by Ludwig Beethoven. This is an eight program series featuring Beethoven's symphonies, concertos, sonatas and etc. The series is as follows:

April 11 — Symphony No. 5, Symphony No. 1.

April 12 — Quartet for String, Sonata No. 23 in F ("Appassionata")

April 13 — Symphony No. 3 ("Eroica")

April 14 — Sonata No. 9, Sonata No. 8 ("Pathetique")

April 15 — Pastoral Symphony (No. 6).

April 16 — Symphony No. 8, Concerto for 2 Violins in D minor.

April 17 — Concerto No. 4, Sonata No. 14 ("Moonlight")

April 18 — Concerto No. 5 ("Emperor Concerto")

Heritage, an hour of the best in classical music, is on the air 9:00 'till 10:00 each evening on KMSM-FM, 88.5 megacycles.

Changes to Be Made

1: Add to Article I: The insignia of the organization shall be the seal of the school, and the words "Student Council."

2: Delete Article III, Section 3.

3: Renumber Article III, Section 4 to be Section 3.

4: Renumber Article III, Section 5 to be Section 4, and delete from this section the words "(or alternate)."

5: Renumber Article III, Section 6 to be Section 5, and add to this section: Any member having acquired three (3) unexcused absences, or two (2) consecutive unexcused absences shall be deemed unfit and subjected to this vote. The President is the only officer with the power to excuse absences, but a member may appeal the President's decision to the entire council. It shall take a three-fourths (3/4) vote of the total membership to reverse the President's decision.

6: Delete Article III, Section 7 and 8, and add new Article III, Section 6 to read: If an active member drops off the Council, his organization shall elect a new representative.

7: Add new Article III, Section 7 to read: Each organization shall elect a new representative to the council by the first meeting of the Council in the Spring semester of each year and this representative shall serve as a representative-elect until the last regular meeting of the Council in the month of April, and then shall assume the position of a regular member. During this period the representative-elect may attend meetings and enter into discussions, but may not vote.

8: Delete Article IV, Section 2 and Section 7, and renumber sections accordingly.

9: Article V, Section I: Add to the duties of the President; He shall prepare at the beginning of each school year a list of fifteen (15) students, approximately half independents and half fraternity men, in agreement with the qualifications set up by the traffic regulations, and upon approval by a simple majority of the council, submit this list to the Dean of the Faculty for consideration as appointment to the Traffic Committee.

10: Add to Article V, Section 2: He shall be elected to serve a term of five (5) years.

11: Change Article V, Section 3 to read: The officers of the Council shall be elected at the first regular meeting in April by the retiring Council.

12: Delete Article V, Section 8, and add new Article V, Section 8 to read: Roberts' Rules of Order shall be the ruling authority in all questions of parliamentary procedure.

13: Change Article VI, Section 1, to read: There shall be an Executive Committee of the Student Council and this Committee shall attempt to formulate policy for the Council as a whole, it being understood that the actions of the Executive Committee shall be subject to approval of the Council. The Executive Committee shall be composed of the president, vice-president, secretary, treasurer, executive committeeman and the faculty advisor who shall have the right to speak but not to vote. The chairman of this committee shall be the President of the Council.

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NSF SCHOLARSHIPS

(Continued From Page 1)

searchers are presently pursuing or planning advanced study.

Participants were chosen from the Junior and Senior Classes on the basis of active interest in research, creative ability, imagination and academic accomplishments.

Students working on the current NSF - sponsored undergraduate research program are Edward L. Tharp, John D. Smart, Marvin Byington, Bruce Bradford, Paul Hustad, and Ronald R. Pierce.



DATED FOR FRESHNESS

TRY A PINCH OF REAL TOBACCO TASTE

MSM Again Sponsors Dist. Speech Festival

Missouri School of Mines played host this past weekend again, as in the past, to the South Central District Regional Speech Festival. Over two hundred participants representing seventeen high schools in the area took part in the two days of events.

The festival was sponsored by the Intercollegiate Knights under the personal supervision of Professor John Brewer. The Intercollegiate Knights, a National

freshman-sophomore honor, service fraternity, served as time keepers, scorers, and general ambassadors of good will.

The events varied from the usual interest-arousers as debate and informative speaking to several new categories such as book reviewing and after-dinner speaking.

Also attracting much interest were the eight one-act plays performed in the SU Ballroom. The works performed varied from the deep realism of Tennessee Williams and Edward Albee to light-hearted comedy such as *Box and Cox*, a British cut-up. Mrs. Robin Humphrey, an actress of movie and television fame and a noted critic in her own right, followed each performance with excellent critiques which were not only educational to the young actors, but interesting to the MSM audience.

Other events included duet-acting, humorous reading, radio speaking, prose and poetry, and public speaking.

Winners of the festival qualified themselves for the state finals to be held in Columbia in early May.

MSM Records Alaskan Quake

(Continued From Page 1)

hours, Rupert said. The seismograph also recorded the earth tremors at North Platte, Neb., earlier Friday.

The School of Mines station is equipped with six instruments, three long period and three short-period instruments, which record the north-south, east-west and vertical movement of the earth. The short period instruments detect vibrations in the earth's crust, while the long period instruments record the movement of the earth itself. The seismographs are extremely sensitive and show any disturbance of the earth's crust, such as quarry blasting, tornadoes, hurricanes, as well as major upheavals such as earthquakes.

The instruments have recorded all known major earthquakes and reported nuclear explosions since its completion in the fall of 1961, Rupert said.

The station is located in a cave in the Newburg area. The seismographs are inside a concrete building built within the walled-up cave, providing extremely consistent humidity and temperature, Rupert said.

The School of Mines facility is part of an area network, Project Vela Uniform research with headquarters at St. Louis University, a government-sponsored project for the detection of nuclear explosions. Stations at the University of Indiana and the University of Kansas complete the network.

At present the School of Mines operation is essentially that of a monitor, Rupert said, with records sent to St. Louis University, project headquarters, for interpretation.

Under the sponsorship of the Research Center and the Department of Mining Engineering, the School of Mines station is attended by Bill Karwoski, graduate student in mining engineering.

Independents to Hold Elections

The Independents will hold their regular monthly meeting April 13 in the Student Union Ballroom. The main order of business is election of officers for the next school year. Also Student Council and St. Pats Board representatives will be elected. It is important that all card carrying members attend this meeting in order to use their vote in selecting their campus representatives. After the meeting, the movie "Bachelor in Paradise" will be shown to round out the evening.

MSM Student Doubles as Naval Reserve Recruiter

A Missouri School of Mines student has a unique part time job. He is an official Naval Air Reserve representative as a member of the Navy Information Team from the U.S. Naval Air Station, Olathe, Kansas.

Dividing his time between college classes and prospecting the campus for recruits is William E. Rieth, Engineering Aid Surveyor (EAS) second class, son of Mr. and Mrs. Edward Rieth of Marshall, Mo.

When he is not pursuing his studies and his extra-curricular interests, he is trying to find candidates for the Naval Air Reserve programs which has its midwest headquarters at Olathe. His primary goal is to enroll students and graduates in the Naval Aviation Officer programs. Successful candidates, after completing the college requirements for the program they are interested in, go to Pensacola, Florida for flight training.

Rieth also signs up recruits for

SCIENCE FAIR

(Continued From Page 1) scientific thought, thoroughness, skill, clarity, and dramatic value.

Displays will be open to the public at the school's Jackling Gymnasium from 6 to 9 p.m. on April 10 and from 8 a.m. until 2 p.m. on April 11. Awards will be presented on the 11 at 2 p.m.

In conjunction with the science fair, an open house will be held on the campus from 8 a.m. until 4 p.m. Saturday, April 11. All departments of instruction and administrative offices will be open, and visiting prospective high school students, their parents and high school teachers and counselors are invited. College bound students may discuss such questions as cost, housing, loans etc. with School of Mines officials.

the "Weekend Warriors" who drill two days a month at NAS Olathe with squadrons of the Naval Air Reserve. Time spent with these squadrons counts toward longevity pay increases during later active duty with the fleet or as a Navy pilot.

Rieth, the father of two, is a Naval Air Reserve enlistee himself. He plans to enter the field of civil engineering and remain in the Naval Air Reserve after

graduation.

Some of the men enlisted by Rieth will remain in the service and fill command positions. Others will return to civilian life and become part of the Navy's trained ready reserve. Directing a steady stream of new blood into the Navy's "Annapolis of the Air" at Pensacola are men like 'Bill' Rieth. He is one of the men who help the Navy to "Keep 'em Flying."



On Campus with Max Shulman

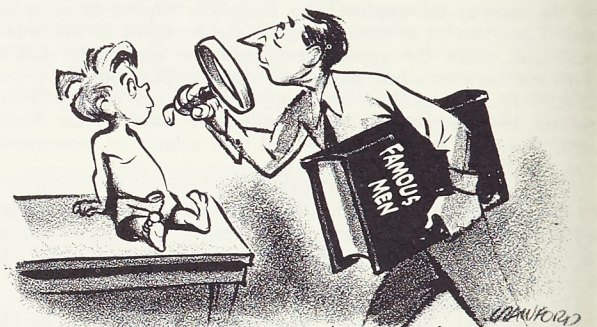
(Author of Rally Round the Flag, Boys! and "Barefoot Boy With Cheek.")

WELL-KNOWN FAMOUS PEOPLE: No. 1

This is the first in a series of 48 million columns examining the careers of men who have significantly altered the world we live in. We begin today with Max Planck.

Max Planck (or The Pearl of the Pacific, as he is often called) gave to modern physics the law known as Planck's Constant. Many people when they first hear of this law, throw up their hands and exclaim, "Golly whiskers, this is too deep for little old me!"

(Incidentally, speaking of whiskers, I cannot help but mention Personna Stainless Steel Razor Blades. Personna is the blade for people who can't shave after every meal. It shaves you closely, cleanly, and more frequently than any other stainless steel blade on the market. The makers of Personna have publicly declared—and do here repeat—that if Personna Blades don't give you more luxury shaves than any other stainless steel blade, they will buy you whatever blade you think is better. Could anything be more fair? I, for one, think not.)



Max Showed no indication.....

But I digress. We were speaking of Planck's Constant, which is not, as many think, difficult to understand. It simply states that matter sometimes behaves like waves, and waves sometimes behave like matter. To give you a homely illustration, pick up your pencil and wave it. Your pencil, you will surely agree, is matter—yet look at the little rascal wave! Or take flags. Or Ann-Margret.

Planck's Constant, uncomplicated as it is, nevertheless provided science with the key that unlocked the atom, made space travel possible, and conquered denture slippage. Honors were heaped upon Mr. Planck (or The City of Brotherly Love, as he is familiarly known as). He was awarded the Nobel Prize, the Little Brown Jug, and Disneyland. But the honor that pleased Mr. Planck most was that plankton were named after him.

Plankton, as we know, are the floating colonies of one-celled animals on which fishes feed. Plankton, in their turn, feed upon one-half celled animals called krill (named, incidentally, after Dr. Morris Krill who invented the house cat). Krill, in their turn, feed upon peanut butter sandwiches mostly—or, when they are in season, cheeseburgers.

But I digress. Back to Max Planck who, it must be said, showed no indication of his scientific genius as a youngster. In fact, for the first six years of his life he did not speak at all except to pound his spoon on his bowl and shout "More gruel!" Imagine, then, the surprise of his parents when on his seventh birthday little Max suddenly cried, "Papa! Mama! Something is wrong with the Second Law of Thermodynamics!" So astonished were the elder Plancks that they rushed out and dug the Kiel Canal.

Meanwhile Max, constructing a crude Petrie dish out of two small pieces of petrie and his gruel bowl, began to experiment with thermodynamics. By dinner time he had discovered Planck's Constant. Hungry but happy, he rushed to Heidelberg University to announce his findings. He arrived, unfortunately, during the Erich von Stroheim Sesquicentennial, and everyone was so busy dancing and duelling that young Planck could find nobody to listen to him. The festival, however, ended after two years and Planck was finally able to report his discovery.

Well sir, the rest is history. Einstein gaily cried, "E equals me squared!" Edison invented Marconi. Eli Whitney invented Georgia Tech, and Michelangelo invented the ceiling. This later became known as the Humboldt Current.

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* * *

Mr. Shulman is, of course, joshing, but the makers of Personna Blades are not: if, after trying our blades, you think there's another stainless steel blade that gives you more luxury shaves, return the unused Personnas to Box 500, Staunton, Va., and we'll buy you a pack of any blade you think is better.

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NOTICE!

Pick Up Mid-Semester
Grade Report

If you have not yet received your copy of your mid-semester grade report, please come to the Registrar's Office to pick it up.

The mid grade reports for students with 40% failing grades or generally low records will be sent directly to the advisors. Students who are to see their advisor to obtain their grade report will be notified by letter by the Registrar's Office.

Students who are repeating a course in which a passing grade was previously earned should make sure the letters "REP" appear to the right of the mid grade on the report. If this notation is not present, it is important that the Registrar's Office be informed so their records can be corrected.

Greek News

TEKE's Attend Regional Conf.

Fraters Paul Cook, Jerry Wilkinson, Bob Farrell, and pledge John Ulrich represented Beta Eta chapter in the regional leadership conference at Kansas City. Here the group exchanged ideas about the various aspects of fraternity life with delegations from Missouri, Kansas, Oklahoma, and Indiana TKE chapters. The conference itself was a success and there weren't any complaints about K.C.'s night life either. After large send off banquet Sunday our delegation headed home and unfortunately experienced an automobile mishap. Two objects really can't occupy the same place at the same time so now Frater Cook has one slightly soiled 56 Ford for sale.

Frater Larry Vaughn had a serious accident at Friday night's softball game and is now in St. Louis under the care of an eye specialist.

Frater Pendergrass suffered a broken thumb in last weekend's wind storm. His volkswagon decided to become airborne.

K.A.'s Initiate Fifteen; Elect New Officers

Beta Alpha of Kappa Alpha is proud to announce the following new initiates. Dennis Kennedy, New Hempstead, N.Y.; Denny Hanlon, Webster Groves, Mo.; Larry Yates, Kansas City, Mo.; Dick Carey, Oak Park, Ill.; Ray Doerr, Creve Coeur, Mo.; David Krutsinger, Joplin, Mo.; Doyle Powell, Springfield, Mo.; Larry Rankin, Magnolia, Ark.; Dan Sabo, Jennings, Mo.; Jerry Sellers, Lebanon, Mo.; Glynn Stephens, Springfield, Mo.; Ted Weise, Cardington, Ohio; Gene Albrecht, Afton; Gary Gerlitz, Afton, Mo.; and Robert Hale, Des Peres, Mo.

New officers at K.A. were elected on March 9, 1964. They are: Wayne Altmansberger, Pres.;

Rich Cleve, Vice-Pres.; Jim Hunter, Recording Secy.; Glenn Miller, Corresponding Secy.; Gary Ruetter, Historian; Joe Kasten, Treas.; Joe Woolridge, Parliamentarian; Charlie Martin, Keeper-of-the-door; and John Yates, Sergeant-at-arms.

St. Pat's proved to be an exceptional party weekend in numerous aspects for Kappa Alpha. Not only was it an enjoyable weekend for all at K. A., but it became a special event for some. The following members became pinned: John Schneider to Joan Eckmeir, a student at Hickey's Secretarial School and Mike Morlan to Sharon Littlejohn, a student at Lindenwood College. Lavaliers were given also: Gene Albrecht to Cindy Lambert of Afton, Mo.; Joe Kasten to Kathy Kronkright, a Chi Omega pledge at K. U.; Bob Hale to Karen Younger, presently an Alpha Delta Pi pledge at Cape Girardeau; Jerry Sellers to Susan Reese of Lebanon, Mo.; and Ted Weise to Linda Hardman from Cardington, Ohio.

Six Men Become New Beta Sigs

Beta Sigma Psi recently initiated their fall pledge class and held its traditional initiation banquet at the Colonial Inn in Rolla.

Six men were accepted into active membership: Ron Bruenjes from Brentwood, Mo., majoring in mechanical engineering; Don Fleming from Jefferson City, majoring in civil engineering; Frank Ollinger from St. Louis, majoring in physics; Gary Stienbrueck from Ellisville, Mo., majoring in electrical engineering; Ed Stevens from Fenton Mo., majoring in electrical engineering; Rich Vedder from St. Louis, majoring in civil engineering; and Karl Zeigler from St. Louis, majoring in electrical engineering.

Guests at the banquet were Rev. William Friederichs, pastor of Immanuel Lutheran Church; Mr. Emil Mesko; Mr. Laurence Lumpe, executive vice-president of the First State Bank, all honorary active members. Professor Grimm from the EE department

was also present.

The guest speaker was Professor E. W. Carlton, head of the Civil Engineering Department. He spoke on the benefits of the social fraternity.

P.R.'s Travel To Fort Wood

Although it rained almost all day last Saturday, and the temperature dipped to 35 degrees, the Pershing Rifles had a very successful outing at Fort Leonard Wood. Twenty-five members of the company fired the M-1 and the 30-caliber machinegun on the trainfire ranges at the Fort.

Captain Cole, the P/R advisor, ordered 4000 rounds of armor-piercing ammunition for the M-1's and machineguns. Although the men fired as fast as they could, they still had trouble firing all 4,000 rounds.

The trip was such a success that the P/R's are making plans to have two trips to Fort Wood next year. Plans call for even more ammunition for these trips.

Austin New IEEE Pres.; Bergt, V.P.

Mr. Tom Austin was elected president of the Missouri School of Mines and Metallurgy chapter of the Institute of Electrical and Electronics Engineers for the 1964-65 term.

Other officers elected at the April 1 meeting were: Dave Bergt, vice president; Gary Brunner, secretary; Duane Hayes, treasurer.

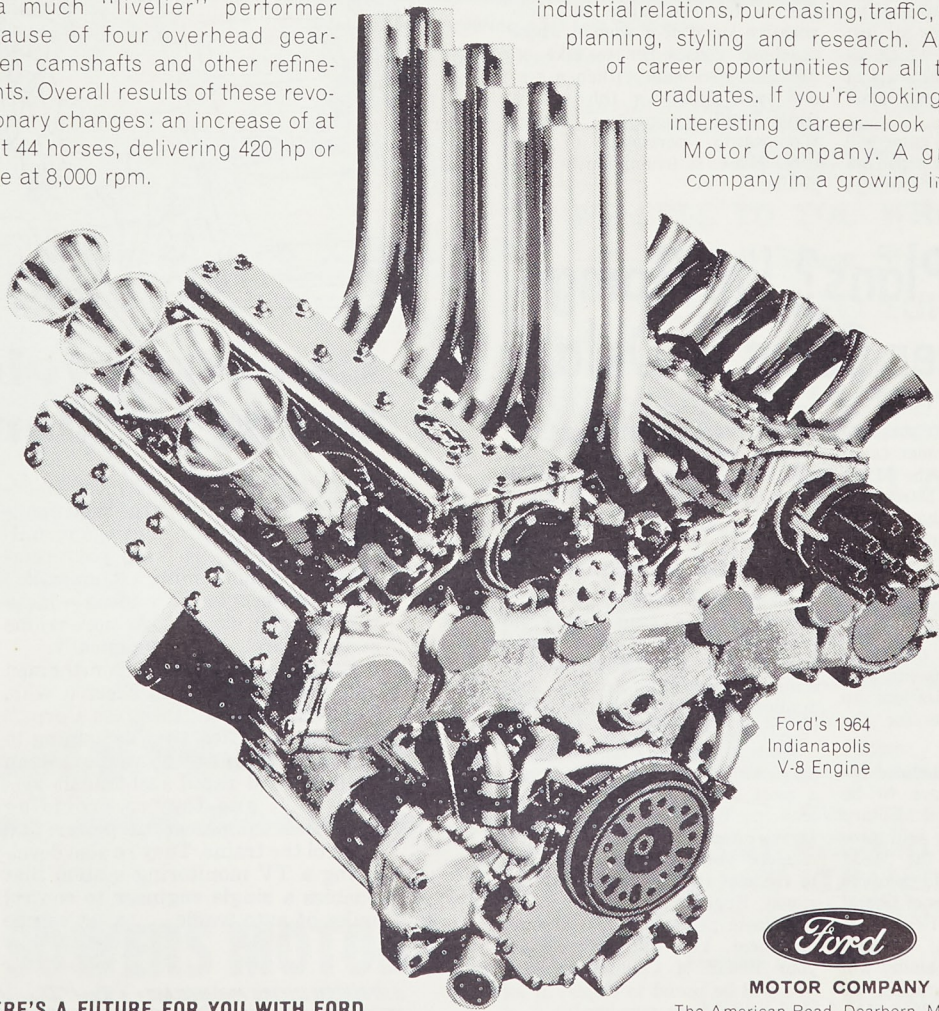
Mr. L. H. Fricke of Monsanto Co. was the guest speaker of the evening. He spoke on "Simulation and Process Control" and used an analog computer and multiple channel oscilloscope to help illustrate his topic. Mr. Fricke explained the principles of feedback control and pulse and step functions as they applied to his work.

Students who are going on the field trip to Western Electric's Kansas City, Mo. plant on Sunday, April 12, will be excused from Monday's classes with permission from their instructor.

Exciting things are happening everywhere at Ford Motor Company!

After Ford's spectacular debut in last year's Indianapolis 500-mile race, many people wondered what we would come up with next. Well it's here! Ford Motor Company engineers have developed a brand-new V-8 especially for this year's competition at Indy. Although it's the same size as the 1963 version, this racing engine is a much "livelier" performer because of four overhead gear-driven camshafts and other refinements. Overall results of these revolutionary changes: an increase of at least 44 horses, delivering 420 hp or more at 8,000 rpm.

Ford engineers met many challenges in developing this engine. But this is just typical of the challenges being accepted every day by our employees . . . that's what makes Ford Motor Company such an exciting place to work. And not only in engineering. Exciting opportunities exist in manufacturing, finance, sales, marketing, industrial relations, purchasing, traffic, product planning, styling and research. All types of career opportunities for all types of graduates. If you're looking for an interesting career—look to Ford Motor Company. A growing company in a growing industry.



Ford's 1964
Indianapolis
V-8 Engine



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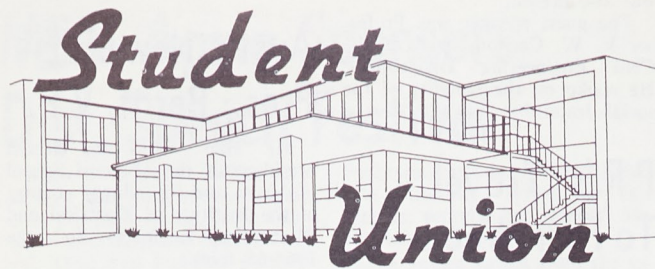
NEWS OF THE WEEK

(Continued From Page 3)

Pravda said that the Chinese were steering away from basic Marxism-Leninism and toward setting up hostile factions. Moscow has asked for a showdown conference with China on these points.

Washington D. C.: The Senate investigations subcommittee has charged that several contractors of Nike, Bomarc, and Atlas missiles are receiving "pyramided" profits far in excess of reasonable profits. Western Electric and Douglas Aircraft were among those firms indicated by the subcommittee. The chief problem comes from the practice of subcontracting to other companies. The main contractor takes a profit from work done by the subcontractor, even though the subcontractor sells directly to the government. The government has been put in a poor bargaining position by lack of competition coupled with the great urgency of the missile program.

Washington D. C.: General Douglas MacArthur died of a liver ailment at the age of 84.



Friday Forum Outlines Student Union Expansion

The Student Union Literary and Music Committee is now sponsoring the Friday Forums held each week. Tonight's forum at 7:30 p.m., room 114, Civil Engineering Building, will outline the expansion of the Student Union.

Robert "Bo" Jung, vice-president of the Student Union Board and Emmett Klinkerman, business manager of the school, will outline the proposals for the new Student Union edition which will be added to the present Union in the near future. Following this critique the floor will be open to questions and a general discussion. Student recommendations will be very helpful in the planning of the new Union.

SU Board Plans St. Louis Visit

On May 2, 1964, the Student Union has planned a trip to St. Louis. The trip will include a musical comedy at the American Theatre or a Cardinal baseball game or both.

The musical comedy at the American Theatre is a take-off on Ancient Rome. The price for just the play will be \$6.50, which includes transportation and seats at the theatre. The play will start in the early afternoon.

The Cardinal baseball game will be that evening. The Cards' opponents will be the Pittsburgh

Pirates. The price for the ball game will be \$6.25, which also includes transportation and reserved seats.

For the stout hearted, who wish to see both, the cost will be \$8.75, which does not include dinner that evening.

For further information, call Mike Keller at 364-9982.

Golf Tournament

All golfers who would like some stiff competition are strongly urged to sign up for the golf tournament being sponsored by the Student Union. Those interested may sign up until April 20. Play will begin April 24.

Film Series

"Gateways to the Mind" will be the title of the Student Union's educational film being presented, Thursday, April 16, 4:30 and 7:30 p.m. Film will be shown in the ballroom.

Student Union Movies

"THREE FACES OF EVE"

"Three Faces of Eve" in cinemascope and black and white, starring Joanne Woodward, David Wayne, and Lee J. Cobb.

Based on a true case-history, this is the intriguing and provocative story of a woman whose psychosis causes her to take on first one personality, then a second, and finally a third — a triple "split personality." Joanne Woodward's portrayal of the three phases is triumphantly compelling.

Summer Plans? I'm Going To Summer Camp in Okla.

Ninety-four ROTC cadets at MSM are busily making preparations for attending summer camp in June. Ninety-two of the MSM cadets are scheduled to attend the camp at Fort Sill, Oklahoma; one is scheduled for the camp at Indiantown Gap, Pa.; and one for Fort Bragg, North Carolina.

In addition to filling out personal history statements, biographical sketches and other required forms, the cadets are also receiving their immunizations to aid in preparing them for the military routine.

The ROTC camps scheduled for this coming summer are to be conducted on the General Military Science concept, which will provide opportunities for the MSM students to associate and compete with cadets from colleges of liberal arts as well as colleges of engineering. The broad scope of the General Military Science training will give the engineering student an insight into the practical application of his technical knowledge

and his reasoning capacity for solving problems peculiar to the military skills.

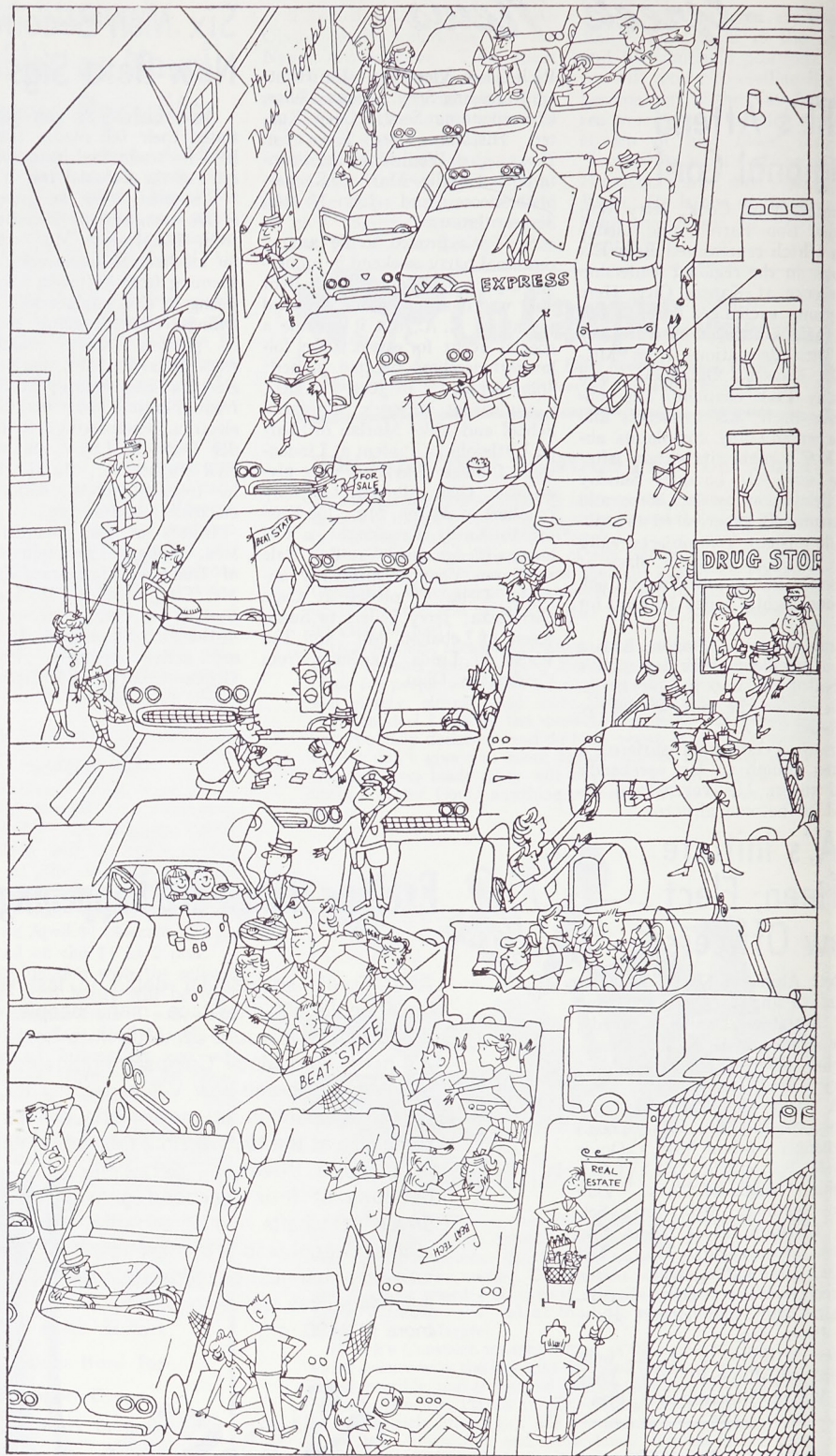
The Cadet Corps at MSM is the largest Branch Material, Engineer, ROTC in the United States.

ENGINEERING OBLIGATIONS

(Continued From Page 3)

neer-in-Training exam which all prospective Professional Engineers should take. The eight hour exam will be held on April 25, and applications will be received until Friday, April 24.

All who were in attendance will agree that the program presented a most informative view of Professional Engineering, and in Mr. Dyer's words, "When you have received your certificate attesting to the fact that you are a Professional Engineer, you may take justifiable pride in a real accomplishment. You will have earned your Badge of Competence and you will be proud to display it as evidence of your membership in a great and learned profession."



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MINER SPORTS

FRIDAY, APRIL 10, 1964

THE MISSOURI MINER

PAGE 9

MSM Finishes Fifth in MIAA Meet; Defeated by Wheaton, 82-58

By Ches Vogt

On Saturday, March 21, Columbia was the scene of the 1964 MIAA Indoor Track Meet. The Conference found Kirkville taking first place with 85 points, Warrensburg second with 28, Springfield third with 27, and Cape Girardeau fourth with 16 points. MSM was next in line with 13 tallies and Maryville last with 11 points.

For the Miners Bob Erxleben made a very respectful showing by finishing second in the 60 yard high hurdles and fifth in the low hurdles. Grimm finished third in the 440 yard dash. The mile relay quartet made a fair showing by finishing fourth. The re-

lay team is composed of Ed Thorp, Fred Vogt, Ted Moore, and Robert Grimm.

Five records were set and one was tied in the meet. Schneider of Kirkville broke one record and tied another. He bettered his old mark by running the mile in 4:38.8 and broke the record for the 880 with a time of 1:56.6. Waddle of Kirkville set a new record in the two mile run with a winning time of 9:35.1. Taylor of Kirkville set a new meet record in the high jump with a leap of 6 feet 4 3/4 inches. Clinton of Kirkville set a new broad jump record of 223 feet 3 3/4 inches.

Tuesday, March 31, the Wheaton Crusaders met the Miners in a dual meet, at Rolla. Although the Miners made a fine showing, by scoring in all 16 events, they were defeated 82-58.

The scoring for this event was figured on the basis of 5 points for a first place, 3 points for a second place, and 1 point for a third place.

New field records were set. William Ravens set a new hop-step-jump record with a distance of 40 feet 4 3/4 inches, and Adare of Wheaton set a new record in the 330 intermediate hurdles with a time of 42.1.

The Miners shut out Wheaton, in the scoring column, in the broad jump as Tom Miller took first, William Ravens second, and Bob Erxleben took third place. In

Park. All Miners in St. Louis for the weekend are invited and urged to attend. This game should be the one to watch.

The MSM Rugby team has brought quite a lot of attention from St. Louis sportswriters and from other colleges. With continued success the team will be in a league with competition from large colleges such as Notre Dame and Princeton. Let's get out and support the Miners!

the mile relay the MSM squad took first with a time of 3:36.7.

The Miner trackmen receiving points for their performances in each event were: Ted Moore second in the mile; Robert Grime second in the 440 yd. dash; Fred Vogt third in the 440 yd. dash; Joel McKell first in the shot put, third in the discus; David Faintich third in the shot put; Tom

(Continued on Page 10)

Tennis Squad Falls to Illinois Normal in Opener

Illinois State Normal Teachers College dropped in on Ray Morgan's varsity tennis squad a little while back and left in a blaze of glory as the MSM team won only

ful season.

Bob Whelove, in his second year on the tennis team, took the single match against Normal. Currently in the fourth position

MSM VARSITY TENNIS

Sat., April 11 Four Team Tournament at Kirkville
Sat., April 18 Evangel College at Rolla
Tues., April 21 Washington University at Rolla
Tues., April 28 Westminster College at Rolla
Fri., May 1 Southwest Mo. State at Springfield
Sat., May 2 Northeast Mo. State College at Rolla
Fri. & Sat., May 8 & 9 MIAA Meet at Rolla

a single match out of nine scheduled. Actually the March 26 match provided the needed experience for the fairly young Miner group, and with continued practice it could very well be an event-

on the squad, he should definitely prove to be an asset as the year progress.

Coach Morgan placed Lothar Hansen, a freshman from Chicago, in the first spot, with the comment that he will improve over his showing against the Illinois group. "He has a good backhand and a strong forehand drive," commented Morgan. Dale James and Kim Thein rank in the second and third positions, respectively, James providing a dazzling array of shots and Thein being described as a "scrambler." Danny Sabo, a rather slight fellow with sound ground strokes, is in the fifth spot, and Geof Goldbogen rounds out the team in the sixth spot.

Doubles consist of three sets, with Hansen and James in the first, Goldbogen and Whelove in the second, and a third duo of Sabo and Hank Montrey.

Ten men are currently attempting to place on the Miner squad, and Coach Morgan is arranging challenges for these men. Among the hopefuls are Ballet, who could very easily fit in the number six slot, and Fields, who is improving with every practice.

An increased interest toward this phase of the varsity athletic program was noted this year, and it will take skilled material to replace those on last year's squad lost through graduation. One particular man who comes to the

Rugby Team Drops Two To Billikens

By Ed Skwiot

The Missouri School of Mines Rugby Football team has been the center of much interest in the past three weeks. The team's first two encounters were against the St. Louis University Billikens. The first game was played in Rolla March 22, and the second game played in St. Louis over the Easter vacation.

The newly-formed Rugby Miners gave the Billikens a real run for their money in two tough defensive games. Final results showed the Billikens edging the Miners in both games by one try (goal), the identical scores being 3-0.

Needless to say, spirit on the team has been very high. The Rugby Miners will be looking for their first victory this coming Sunday, April 12, when they play the "Rebels" an independent team in St. Louis. The contest will be played at twelve noon in Forest

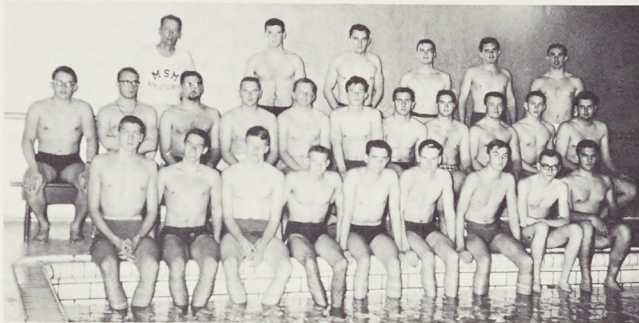
Twenty-seven Miners Complete WSI Program

By Ed Rutledge

For the past three weeks the Jacking Gym swimming pool has been a class room to the twenty-seven MSM students who have just completed the Water Safety

ing of water safety."

Our hats are off to these men who have found time from their school work to devote to this most worthwhile program. The men are as follows: James Bayless, Peter



MSM students completing part two of course.

Course, of the National Red Cross Water Safety Program. This course is the final phase of the Red Cross's teaching program, and it is designed to teach individuals the basic instructional methods for teaching lifesaving and swimming. The course has been conducted here at MSM for the past few years under the direction of the School of Mines swimming coach Burr Van Nostrand, and is one phase in the Red Cross's objective to make Every American a swimmer and every swimmer a lifesaver."

Van Nostrand had high praise for this group that has just completed the course. He said "I believe that I worked this group harder than any of the past. They should do an outstanding job, and I know they will accept the responsibilities connected with teach-

Biggs, Larry Cormack, Andrew Cockran, Thomas Daugherty,
(Continued on Page 10)

Sports Calendar

April 11	TRACK
April 13	Principia College, at Elsah, Illinois
	Drury College at MSM (rained-out meet)
April 11	TENNIS
	Four-team tournament at Kirkville
April 11	GOLF
	Washington University at MSM
April 12	RUGBY
	Independent "Rebels," in St. Louis

Varsity Athletes Washed-Out Saturday

Old Man Weather played havoc with MSM varsity sports over this past weekend as three events were washed-out. The cinder-meet with Drury College of Springfield, which was to be held at the Miner loop, is to be rescheduled for Monday, April 13.

The Drury golf and tennis teams were also in Rolla last Saturday for the downpour, however these matches will not be replayed. The golf match went as far as nine holes before it was halted, however, the tennis squads never even made it to the courts.



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FREE PARKING

Phi Kappa Theta Sweeps Volleyball Over Lambda Chi

Phi Kappa Theta took the intramural volleyball crown, for the second consecutive year, by downing Lambda Chi Alpha 21-14 and 23-21 in the finals of the single-elimination type tournament between the top teams of the four separate leagues. In the consolation game for third place, Tech Club whipped Engineers.

For their efforts the top four teams received 260, 250, 240, and 230 intramural points. The runner-ups in each league were Kappa Sigma, Tau Kappa Epsilon, Sigma Nu, and Pi Kappa Alpha. The Intramural 22 Caliber

BOWLING MARKS SET

Two all time records were broken during the intramural bowling competition, that of the individual high series and the total pins for a team. Engineers Club swept the two-day schedule with a total of 2789 pins, resulting in a sum of 130 intramural points. Jack Suetterlin took the high series with 600 pins. Runner-up was Gary Kelso with 595 for the Triangle squad.

Triangle came in second with 2655 pins, followed by the Fifty-Niners with 2618. Sigma Phi Epsilon took fourth and the Tech Club came in fifth. Intramural points gained by an organization entered in bowling decreases by five for each place, with 130 as the starting mark.

Parsley's SEMO Squad Earned NCAA Tourney Finals

Coach Charles Parsley, whose Southeast Missouri State College basketball team just finished with a record fourth-straight MIAA championship, an NCAA Southwest regional championship and a trip to the finals at Evansville, Ind., admitted today that "We went farther than I thought we would."

Not only did the squad lose two 20-plus scorers from last year, but, to make the outlook even more bleak for the opening of the season, 6-7 center Bob Miller, broke a kneecap, and saw limited action until late in the season. Senior guard, Naemon Townsend, broke a finger in pre-season drills, missed the opening game and played several more with a cast on his hand.

How, then, was this year's team able to match the highly rated squad of last year? "Team spirit was better this year," said Parsley, "and we had a much better overall team effort. We had better balance, and a better bench."

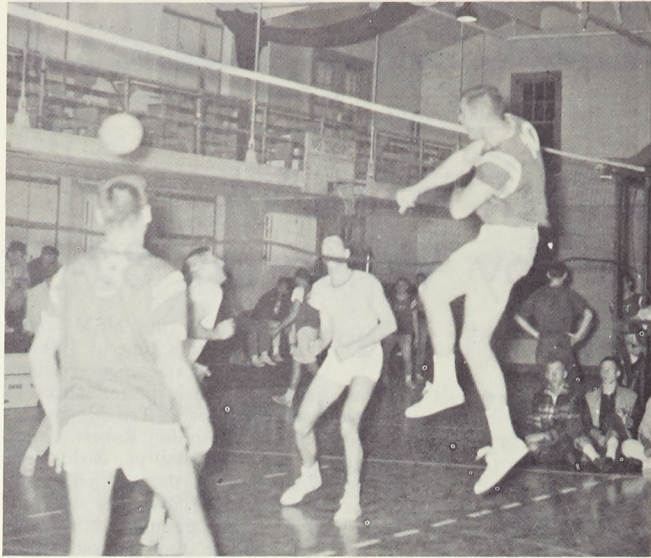
Leading scorer for the Indians, senior guard Don Ringstaff of Smithland, Ky., posted a modest 14.5 average, followed by Paul Ranson, senior center from Wolf Lake, Ill., and Townsend, both with 13.1 averages. Each however, was over 20 points at least twice, with Townsend hitting the season high of 38, and Ringstaff hitting highs of 33 and 32.

Five seniors, all key players, will be lost to the squad for next year. However, Parsley feels that he will have a good nucleus around which to build a new club.

Rifle Marksmanship Program is being conducted under the supervision of the Military Department.

A record match will be fired during the month of May. The match will consist of 30 rounds, 10 fired from each of the three positions; prone, kneeling, standing, and will be fired on a standard smallbore 50-foot target. Each organization may enter one five man team. Three firers selected from each five man team will represent the organization. Practice sessions are presently going on.

Last year's results showed Tech Club taking the top spot with a winning score of 759 points, while Sigma Pi ran a close second with 754 total team points.



Tense moments in intramural volleyball final.

SIDELINES

by BRUCE T. GREGG



MSM is a member of the Missouri Intercollegiate Athletic Association, and our conference allows us 35 full scholarships for all sports. However, when these are split between basketball, track, and football, it doesn't really leave much for one particular division. The new men will be brought here with the idea that they are engineers first and varsity players second. The aid given to these men will be based first upon need, ability, and desire. This will not be on a four year basis but from semester to semester. How well a boy exerts himself on the playing field might very well govern how much he draws the next semester.

For the latest and up-to-date views on MSM athletics, be sure and listen to the Miner Sports Report at 7 p. m., every Friday, (preceded by national sports news coverage at 6:45), on KMSM, 88.5 mc on your FM dial.

One note of interest to those football fans who follow the MSM varsity squad is a change in the offensive tactics of the team. Next fall will see the start of the Wing T offensive with a pro end or pro style. However, much of the time will be spent on defense. In other words the defensive ball club will be first, the offensive ball club second.

Organizers of the "MSM" rugby team have received letters from several Eastern schools (Notre Dame and Princeton????) discussing the possibility of competition with the School of Mines on the Rugby football field. Will this group ever be recognized as a part of the athletic department???

It might be interesting to note that the MIAA has the reputation for being one of the strongest small college basketball conferences in the United States. This is based upon the number of championships and teams in the National Tournaments. With the new athletic drive here at MSM, another three or four years might well see MSM play a major part in maintaining the MIAA's present standing.

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MINER TRACK TEAM

(Continued From Page 9)

Miller second in the 100yd. dash third in the 220yd. run, first in the broad jump; Bob Erxleben first in the 120 high hurdles, third in the broad jump, third in the high jump, third in the javelin; Ed Sharp third in the 880 yd run; William Ravens first in the hop-step-jump, second in the broad jump; David Leven second in the 330 yd intermediate hurdles; Skip Damotte second in the 2 mile run; Dennis Covell second in the hop-step-jump; James Hood second in the pole vault; Ed Shimamoto third in the pole vault.

WSI PROGRAM

(Continued From Page 9)

Richard Engel, John Hoog, Robert Kehrman, Ken Krueger, Clarence Miller, John Munsey, Tom Meier, Jimmie McGinnis, Robert Nichols, Reginald Nations, Norman Muss, Brun Royrden, John Sunukjian, John Solook, Dennis Sullivan, John Van Preterson, Richard Vertue, Raymond Mullen.

will take place in April with five divisions in singles and two in doubles up for grabs. On that date, the Miners will be off to NEMO to sweep the list.

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