



12 Oct 1962

The Missouri Miner, October 12, 1962

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Dale Marshall is Elected GDI President

The Independent organization held their September meeting in the Student Union Ballroom on September 24, 1962. The officers elected last spring are: Dale Marshall, President; Charlie Campbell Vice-president; Haywood Hackney, Secretary; Frank Brunjes, Treasurer; and Milt Murry, Sgt.-at-arms.

It was announced at the meeting that we have about 70 members. For the first time in the history of GDI, we have several of our coeds in the organization.

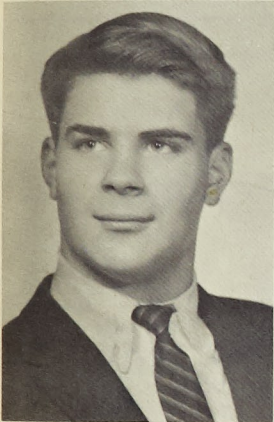
A slide rule and other assorted prizes were given as the door prize.

After the meeting a "Road Runner" cartoon and the film "Long Hot Summer" were shown.

The Independents fall outing was held on Saturday, September 29, at Lion's Park. There were several games that helped to make the day a success. A tug-of-war was held across one arm of the pond. The 59ers were judged winner of this contest. Also a canoe joust was held. This contest came to a draw.

Miner Editor Named Blue Key Man-of-Month

Hugh Murray was elected Blue Key Man of the Month for the month of September. A very personable young man, Hugh has made a big name for himself on campus in his three short years here. He has made it very evident that he is a leader by his many



HUGH MURRAY

activities. To name just a few, he has held the offices of treasurer and vice-president of Alpha Phi Omega, A National Service Fraternity. This shows his willingness to work and sacrifice his time for others. He has been a member of the I.F.C. for the past 2 years, working to promote better interfraternity and independent-Fraternity relationship on Campus.

All this willingness to work has earned him one of the greatest honors and hardest jobs on campus, that of Editor-In-Chief of the Miner. Before becoming editor he held the offices of copy editor and layout editor, each for two semesters, giving him a good background for his present position. As editor Hugh is responsible for each weekly edition of the Miner.

Each month the Blue Key, a National Honor Fraternity, selects a well known man on the M.S.M. Campus for recognition. In addition to the selection of a Man of the Month, the Blue Key also publishes a directory of all M.S.M. students, and performs other worthy projects.

NOTICE!

Don't forget! Saturday, October 13, is the All-School Mixer with girls arriving at the Student Union early Saturday afternoon. Entertainment from 2:00 to 5:00 will be Mugsy Sprecker and his Gaslighters, and the evening will feature Cy Touff and his Band from 8:00 'till 12:00 in the Student Union Ballroom.

MINER

The Missouri

MISSOURI SCHOOL OF MINES AND METALLURGY

VOLUME 49

FRIDAY, OCTOBER 12, 1962

NUMBER 6

Geology Department Receives \$1 Million to Improve Staff

Taken from the June, 1962 edition of the MSM Alumnus magazine.

The Geology Department of the Missouri School of Mines and Metallurgy has been named be-

neficiary of the \$1,000,000 V. H. McNutt Memorial Foundation. The income from the foundation, which will amount to about \$40,000 a year, will be used to improve the Geology Department staff and to assist Geology majors.

The Foundation was established and announced at the 1962 Commencement Exercises at MSM by Mrs. V. H. McNutt, widow of the late Vachel McNutt, a prominent name in the field of petroleum geology in the years 1910-1936.

McNutt attended MSM and received a B. S. in 1910 and his M. A. in 1911. He taught at MSM until 1913, during which he organized the first course in petroleum geology taught west of the Alleghenies.

In 1913 Mac, along with C. M. Valerius, formed the first Geological consulting firm organized in Tulsa, Oklahoma. From this oil center and branch offices in Billings, Montana and Lexington, Kentucky, Mac made many important discoveries in the Rocky Mountains, the Mid-Continent area, and the Southwestern section of the country. Several of the oil fields he discovered are still producing today.

Mr. McNutt's most famous discovery, however, was not in the petroleum field but in pot-

ash. While wildcatting in the Carlsbad Cavern area of New Mexico in 1925, he found particles of sylvite in the drilling cores. The subsequent events saw the development of the first commercial potash mine in the western hemisphere by the U. S. Potash Company. McNutt was honored by the speech given by Senator Carl A. Hatch of New Mexico in the U. S. Senate on April 14, 1934 and printed in the Congressional Record for his pioneering work in the development of the potash industry. Mac was further honored by a plaque in a museum in Carlsbad, New Mexico, one wing of which was entirely dedicated to the potash industry.

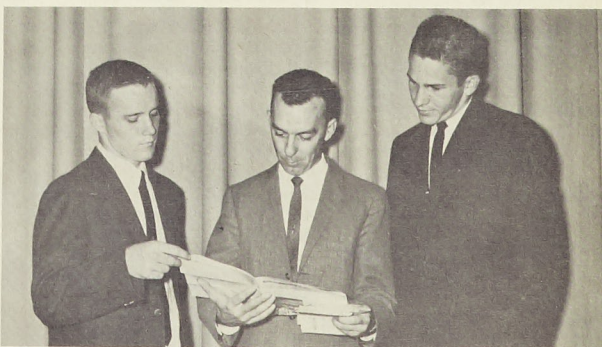
Mac was a member of the American Institute of Mining and Metallurgical Engineers, the American Association of Petroleum Geologists, and the San Antonio Geological Society. He was also a member of the Board of the Alumni Association of MSM. His death on April 4, 1936 left a gap in the field of petroleum geology which was hard to fill. His wife, in her announcement speech, said "I want to thank you of MSM in a more concrete form than just words. I want his work to go on by giving this foundation to the Geology Department."

Peace Corps' Cause To Be Helped by APO

Beginning this semester, Beta Omicron Chapter of Alpha Phi Omega, National Service Fraternity, is aiding Asst. Dean Paul E. Ponder, School coordinator for the U. S. Peace Corps, in distributing pamphlets and other information concerning the Peace Corps.

common in our up-to-date way of life.

This program is a much better "friend-maker" for the U. S. than any more aid program could ever be since it brings foreigners who are in need in direct contact with Americans who are willing to help them.



Standing left to right: Dave Hemmel, Dean Ponder and Doug Schellman.

For those who are not familiar with the Peace Corps, it is a program of the U. S. Government in which people volunteer for two years service in a foreign country aiding underprivileged people by teaching them new methods of farming, construction, disease prevention, education and many other aspects of life that we take for

Any one who is interested in this can procure information from Asst. Dean Ponder's office. Also, there will be a representative of the Peace Corps on Campus Monday, Nov. 5. If anyone desires to talk to him, arrangements can be made through the Asst. Dean's Office.

One Thousand Alumni Expected for Homecoming

Approximately one thousand alumni will be in Rolla for the 1962 Homecoming, set for October 26 and 27. A full set of activities are slated for the two day celebration, highlighted by the installation of new officers

of the MSM Alumni Association. The new president will be James W. Stephens and executive vice-president will be R. O. Kasten. Also featured will be class reunions for the years 1917, '22, '27, '32, '37, '42, '47, '52, and 1957.

1962 HOMECOMING PROGRAM

Friday, October 26

MORNING

- 9:00 a. m. Registration, Ballroom, Student Union
- 9:00 a. m. Guided Tour of Campus and New Buildings
- 10:30 a. m. Open Meeting for All Alumni - Ballroom, Student Union

AFTERNOON

- 1:30 p. m. Annual Meeting of the Board of Directors, MSM Alumni Association, Student Union
- 1:30 p. m. Guided Tour of the Campus and New Buildings

EVENING

- 6:30 p. m. Kick-off - Welcoming Buffet Dinner - Alumni and Guests - College Inn, Hotel Edwin Long

Saturday, October 27

MORNING

- 9:00 a. m. Registration - Ballroom, Student Union
- 10:30 a. m. Annual Meeting of the MSM Alumni Association and Convocation, Ballroom, Student Union.

AFTERNOON

- 12:15 p. m. Class Reunions Luncheons - Classes of 1917, 1922, 1927, 1932, 1937, 1942, 1947, 1952, 1957.) All luncheons will be at the College Inn, Hotel Edwin Long. Separate tables for each group. St. Louis St. Louis Section's Open House at Pennant Hotel.
- 2:00 p. m. Football Game - Miners vs. Maryville Bearcats - Jackling Field

EVENING

- 6:30 p. m. Annual Alumni Banquet - Ballroom, Student Union
- 9:00 p. m. Reception - College Inn, Hotel Edwin Long
- 9:00 p. m. Homecoming Dance - Ballroom, Student Union

MSM Holds Annual Parents Day October 6th

A beautifully clear, warm day broke away from a drizzling beginning to provide a pleasant atmosphere for Parents Day 1962 at MSM. Numbers continue to rise on the annual event and it is getting to be a logical first look at campus for freshman parents and first visit to those Miner parents for whom distance makes frequent visits impossible. Weather did not discourage many already planning on the day and all were glad of their decision when the sun also voiced its approval.

Early arrivers could begin registering at the Student Union at 8:00 and this arrangement continued through 12:30, the end of the MSM class day. As is the custom, the Interfraternity Council provided guides of the campus, leaving the Union at regular inter-

vals throughout the morning. Any Miner accompanying one of these groups might have been surprised to find things about his school with which even he was not familiar.

We'll take a quick tour and see what was learned by visiting parents. Leaving the Union, after seeing the recreational and relaxation facilities there, the tourers were told of the present enrollment of 3400, the degrees now awarded, and the probable increase in both students and graduate letters within the next few years. Passing Norwood Hall, the student guides referred to the excellent biology museum on the second floor. Anyone stopping by the Physics Dept. would had a glimpse at the research being on condensation theory with the

(Continued to Page 3)

Miner Editorial

Seat Belts Make for Safe Driving

Actually, "Two Good Points for Safety Belts" is a misnomer for there are many more reasons for installation and daily use of seat belts than could be listed in the span of this article. However, the five most projected advantages of using seat belts for long as well as short trips are — (1) Traffic accident injuries can be reduced more than one third by the use of seat belts, (2) In emergencies, seat belts help hold driver and passengers securely in place, (3) The chance of injury from sudden stops is reduced, (4) More than half the injurious or fatal accidents occur at speeds under 40 miles an hour, (5) Three out of four traffic fatalities occur within 25 miles of home.

It is these valuable assets of seat belts which have induced an estimated 1.4 million Americans to have this safety equipment installed in their cars in 1961, an estimated increase of 1.2 million from 1957. Although this increase shows a beginning of acceptance of seat belts by the public, the controversiality of such a subject has brought about many discrepancies between fact and common public knowledge. These discrepancies deal mostly with the faults of seat belts. Yet, in reality, if one compares the advantages and disadvantages of seat belts, he will find an overwhelming benefit in having them; for the percentage of accidents in which belts are more harmful than useful is less than one percent of all accidents. Included in this one percent are accidents involving fire or submersion and accidents which are almost non-survivable with or without seat belts.

To make these seat belts more readily available, they will soon be offered to students of MSM and residents of Rolla at cost, along with free installation. More exact details of offer will appear in following editions of the MINER.

The Communism Problem

Communism is a political force which has taken control of over one-third of the world's people in 40 years. It has become the strongest weapon ever devised for building a totalitarian dictatorship and for instilling unrest and ill feelings between the men of the world. The Communists are trained to be like steel. They are forbidden to know that life can also be pleasant. They cannot go easy.

We can believe that Khrushchev does not want nuclear war. But Khrushchev's peaceful co-existence is such that any world peace must co-exist with his plan of global change.

Why is Communism such a problem to us today? Because we have looked away from this force too long. This has lulled us into a sense of unreadiness to cope with the problems that this system of government is imposing upon our principles of democracy. Where were we in our thinking when the ideology of Communism was being laid down? Where are we today in our thinking when this same ideology is threatening our existence as free people? In recent years, a change of feeling from ignorance of the subject to knowledge and interest in knowing about Communism has slowly developed. This has been chiefly due to the number of informed individuals who have devoted time to the study of Communist theory and practice and have informed others of its threat.

We cannot stop the Communist plan of permanent revolution unless we thoroughly brief ourselves for the job ahead.

The world's peril is fast becoming every individual's responsibility. Thus, everyone of us has the job cut out for ourselves of coming to grips with the hard realities of Communism. This is indeed true of us here at the Missouri School of Mines. Eventually we will be in a position of responsibility not only to perform our technical services for industry or government, but also, through intellectual and leadership capabilities to inform others of this fanatic force. We as college students must learn and inform. Communism should become the concern of every individual.



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Band Director Conductor for All District Band

David L. Oakley, Director of Bands at MSM, will serve as guest conductor for the South Central Missouri District All Star Senior High School Band on Saturday, October 13th. The Band, which will consist of students from high schools from the twelve counties comprising the district, will be chosen by competitive audition. The band will meet for a reading and clinic session to be conducted by Mr. Oakley on the morning of the 13th.

A free meal with roast beef and mashed potatoes is irresistible to most of us.

— WIN —
THE BEST "LETTER TO THE EDITOR"
SUBMITTED BY
MONDAY, OCTOBER 15
WILL BE WORTH FIVE DOLLARS!

Student Council Purchases Facilities To Lend

The Student Council has a tape recorder, a Polaroid camera and a motion picture projector that can be used by any recognized organization on campus. Any organization desiring to use any of these should contact Dean Hershkowitz's office.

This is a good opportunity for organizations to obtain the use of facilities that their own budgets may not permit them to enjoy. This was the purpose of purchasing them by the Student Council.

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ADVERTISERS

LITTLE MAN ON CAMPUS



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The Life of Einstein Engineer and Philosopher

In this column it is my intent to portray the character of some of the great scientists and engineers of the past and present. In the classroom we all become familiar with the work of these men but yet, we learn nothing about the men themselves. Does it take some kind of madness to excel in the fields which we study to enter, or are the excellent the well-adjusted family man type? It is my intent to answer this question here through examples. This week I have chosen to portray Albert Einstein.

Einstein's Early Life

Albert Einstein was born on March 14, 1879, in Ulm, Germany. His father was a businessman in Munich. Einstein received his interest in math from his uncle on his father's side. After receiving some schooling in Munich the family moved to Italy, and in 1896 he entered Swiss Federal Polytechnic School in Zurich to be trained as a teacher in physics and mathematics. He spent his time here reading the writings of most of the great physicists of the day. In 1900 he received his diploma and Swiss citizenship. In 1905 he received his Ph.D. at Zurich.

Einstein, unable to find an academic position, took his first job in a Patent Office in Berne. He now had the spare time to complete four important papers. In 1905 he completed his papers on the subject of Special Relativity, the equivalence of matter and energy, the Theory of the Brownian Motion, and the photon light theory. The Theory of the Brownian Motion established the first visible proof of the molecular constitution of matter.

During the years 1909 to 1912 Einstein held professorships at the Universities of Prague and Zurich. In 1913 he became director of the University of Berlin and of the Prussian Academy of Sciences. In 1916 he completed his general theory of relativity.

In 1921 Einstein came to the United States to speak in support

of the Zionist Movement. In 1922 he was drafted into the Intellectual Cooperation Organization of the League of Nations. In this position he spoke publicly on social problems and on subjects of physics. He traveled in Europe, the United States, and Asia during this time.

In 1922 he received the 1921 Nobel Prize "for the photoelectric law and his work in the domain of theoretical physics." This material was contained in his 1905 papers. In 1922 he began work on the space-time unified field theory. In 1924-25 he developed the quantum theory of monatomic gas following the idea of Indian physicist Sir Jagadis Chunder Bose.

Einstein's Life in the U. S.

Forseeing Hitler, Einstein prepared for U. S. emigration in 1932. In 1933 he joined the Institute for Advanced Study, Princeton, N. J. He became a U.S. citizen in 1940. During these years he worked on the field theory, on quantum theory, and spent much of his time working in cooperation with Nazi refugee organizations.

The fission of Uranium was discovered in 1939 by Otto Hahn and Lise Meitner of Germany. Shortly thereafter Enrico Fermi then in the U.S. and Leo Szilard of Hungary, having realized the military significance of this discovery, asked Einstein to appeal to President Roosevelt to utilize this knowledge before the Nazis did. Einstein's letter led to the Manhattan Project and the subsequent development of the atom bomb.

In 1945 he retired from the institute and on April 18, 1955, he died.

Einstein's Beliefs

Einstein spent his life living and working "in that solitude which is painful in youth, but delicious in the years of maturity." He was a modest man who described science as the description of the simplest events of man's experience. The eventual goal of

science is to describe all the events in man's existence which man's intellect cannot now touch.

His belief that a man can do what he wills, but cannot determine what he wills, required him to be tolerant toward others and to have a sense of humor.

In spite of his solitude he had a sense of collaboration with like minded beings without which his life "would have been empty."

Perhaps drawing from his experience in Germany he once stated that "The man who enjoys marching in line and file to the strains of music falls below my contempt; he received his great brain by mistake—the spinal cord would have been amply sufficient. This heroism at command, this senseless violence, this accursed bombast of patriotism—how intensely I despise them! War is low and despicable, and I had rather be smitten to shreds than participate in such doings."

To Einstein the most beautiful experience was the encounter with the mysterious. He believed that it is the source of all true art and science, saying that he to whom emotion is a stranger is as good as dead. He did not believe in a God created in the image of man; nor did he believe in life after death. His only religion was the knowledge that the impenetrable really exists and that it is the highest wisdom and most radiant beauty.

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MSM Computer Center A Credit to the School

One of the latest and most worthwhile additions to MSM is the Computer Center, located on the ground floor of Harris Hall. There are presently two high speed electronic digital computer systems — (1) An IBM 1620 computer system with punched card input-output, 40,000 positions of core storage, indirect addressing automatic divide, and floating point hardware. (2) A General Precision LGP-30 computer system with a photoelectric paper tape reader and a tape typewriter as input, with a typewriter and high speed paper tape punch as output. Auxiliary equipment located in areas adjacent to the computers are IBM card punch machines, card sorter, paper tape preparation equipment, modern desk calculators and a line printer. A large coding and programming room containing tables and chairs make it possible for students to prepare and correct their program near the computers. Offices for the Computer Center personnel and two classrooms occupy the remainder of the floor.

Electronic digital computers are capable of solving nearly any problem that can be formulated in terms of mathematical symbols. Some examples of the wide variety of problems that can be solved on a digital computer are: design of bridges, maintaining control of inventory, analysis of the stock market, language translation, playing games such as bridge and chess, solution of systems of linear and nonlinear equations, solution of ordinary and partial differential equations and the statistical analysis of data.

The Missouri School of Mines

Computer Center was established in February, 1960, under the directorship of Prof. Ralph E. Lee with the aid of a \$30,000 grant from the National Science Foundation. Almost from the start it was difficult to keep up with the demand for computer time. An appeal to the National Science

(Continued on Page 4)

UPTOWN THEATRE

MOVIES IN CINEMASCOPE

Fri., Thru Tues. Oct. 12-16

'Kid Galahad'

Elvis Presley & Lola Albright

Starts Wed. Oct. 17-23

One Showing Nightly 7:30,
Feature 8:00

Adults \$1.00 — Students 75c
Children 50c

'The Music Man'

Robert Preston & Shirley Jones

RITZ THEATRE

MOVIES ON WIDE SCREEN

Fri., Sat. Oct. 12-13

Saturday Continuous from 1 p. m.

'Hannibal'

Victor Mature & Rita Gam

—PLUS—

'Six Black Horses'

Audie Murphy & Joan O'Brien

Sun., Mon., Tues. Oct. 14-16

Sunday Continuous from 1 p. m.

'Breakfast at Tiffany's'

Audrey Hepburn &
George Peppard

—PLUS—

'The Green-Eyed Blonde'

Susan Oliver & Linda Plowman

Wed., Thurs. Oct. 17-18

'World by Night'

Sensational Star Acts!

—PLUS—

'Giant Gila Monster'

Don Sullivan & Lisa Simone

ROLLA DRIVE IN

SHOWS START AT 7 P. M.

Fri., Sat. Oct. 12-13

'The H Man'

Yumi Shirakawa & Kenji Sahara

—PLUS—

'The Last Time I Saw Archie'

Robert Mitchum & Martha Hyer

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Fraternities of MSM

SIGMA PHI EPSILON

Parents day at Sig Ep this year was surely one of the best.

The use of our newly built barbecue pit from last semester added in making the day a great success with barbecued chicken for one and all, as our parents almost managed to eat us out of house and home.

Besides the large number of parents, visits of such honored guests as Dean Wilson, Registrar Bob Lewis, Bear Burton, and several alumni all helped to make this Parents Day one to remember.

After the day's festivities, many moms and dads acquired unforeseen passengers and dirty laundry for the trip back to St. Louis as many Sig Eps went to an engagement party given by brother R. C. Hayden and his fiancée Jeanne Stephan. Plenty of liquid refreshment was on hand or in glass as everyone had a rejuvenating good time.

Our great pledges beat the Phi Kap pledges in a basketball game last Sunday 80 to 72. In command the whole game to hear them tell it. They are now awaiting the challenge from the Phi Kap pledges for their annual football game, which always proves to be interesting and is enjoyed by all.

M. E. Profs Return, Stay

Professor Harry Sauer has returned to this campus after a two year absence for graduate study beyond the Master's at Kansas State University. Professor Sauer specialized in heat transfer and thermodynamics. Students and staff alike are happy to see him return.

Mr. Virgil Flanigan began duties September 1 as an instructor in the Mechanical Engineering Department. He has earned both the B. S. and M. S. degree at M. S.M.

Mr. Lee Anderson of St. James is taking charge of the Machine Shop and keeps busy with a large freshmen enrollment.

Modern Art Topic Of Sunday Talk

Dr. J. L. Mackey, having recently returned from a trip to Europe will speak on the subject, "Primitive Art of a Scientific Technical Age" this coming Sunday at 6:30 p.m., UCCF center 1608 Pine St. If the prevailing trend in art toward increasingly primitive motifs actually represents the spirit of the times, what does this say about the society and man within it? Does art speak for mankind or represent his feelings.

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KAPPA SIGMA

The Kappa Sigs had a very successful Parents Day. We were pleased to meet the pledges' parents and see again the actives', also. It is good that there is so much interest in the Fraternity by the parents.

Kappa Sigma is proud to announce the initiation of seven men September 17. Those initiated included John Tippet, Martin Howard, David Martin, Jim Dycus, Jim Murrell, Tom Meitz, and Robert Kadwell.

The K-Sigs are all looking forward with great expectations to the Homecoming Weekend. It promises to be a party to remember. Our Pledge Dance will be held November 10.

The Intramural Football team has been looking very good in the games so far this season. Our first game was against Sigma Pi, which we won, 34-0. Against Beta Sigma Psi we won 20-7. Good work men, keep it up.

COMPUTER

(Continued From Page 3)

Foundation in Fall of 1961 resulted in another grant to partially support the expansion of the Computer Center. A second computer, the IBM 1620, was delivered in August, 1962. This computer is capable of performing over 100,000 mathematical operations per minute, which is considerably faster than the LGP-30. The addition of an IBM Line Printer which will print 150 lines per minute with 120 characters per line will also add to the capacity of the Center when it is delivered in January. Both com-

(Continued on Page 5)

NOTICE!

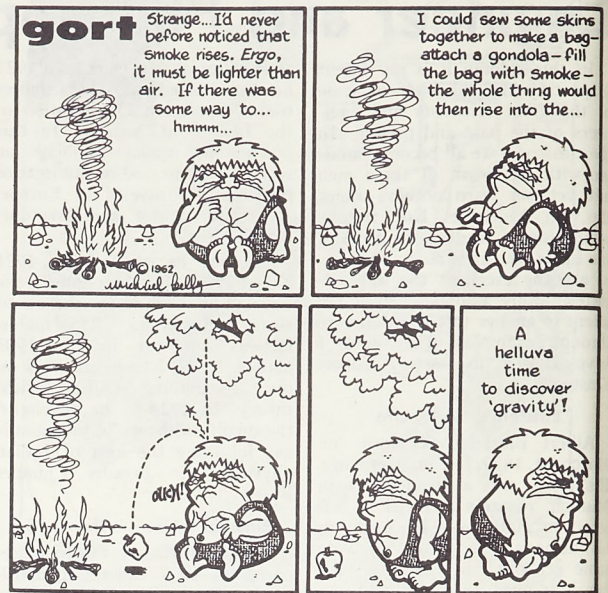
In today's issue of the Miner is the Student Union Poll. Be sure to fill out the questionnaire and turn it in at the Student Union Candy Counter as soon as possible. If you have any complaints about the way the Student Union is being run this is the time to get them taken care of.

MODERN ART

(Continued From Col. 1)

What are the implications of the present trends in contemporary art? Discussion to follow Dr.

Mackey's presentation. Students and Faculty cordially invited to participate, this Sunday, October 14th, 6:30 p.m. at the UCCF Center, 1608 Pine St.



A midwestern college audience recently heard this answer in a talk by A.T. & T. Board Chairman, Frederick R. Kappel

"To us this is an important question because we hire nearly 3000 college graduates yearly. To get an answer we went to our own files and examined the records of nearly 17,000 people. We checked each man's comparative success against what he achieved in college.

"As a group, the scholars won handily. Of the men who stood among the top third in salary for their level of experience, more than half were also in the top third of their college class. Only a quarter were in the bottom third.

"And contrary to age-old beliefs, extracurricular activities proved a lesser indicator unless the individual had an outstanding achievement. Mere 'joining' was not enough.

"The study indicates, at least as far as the Bell System goes, that there's little opportunity for college students

who practice 'diplomaship'—the belief that a diploma automatically leads to job success. Such thinking will not make telephone service what we know it can be.

"The men we want are men with intelligence plus those other attributes that give you the feel, the sense that they will make things move and move well—men who want to excel and are determined to work at it.

"Nothing short of excellence will do."

FREDERICK R. KAPPEL, Chairman of the Board
American Telephone and Telegraph Company



BELL TELEPHONE COMPANIES

Student Union Money Provides Many Services

The budget for the Student Union activities for the school year, 1962-63, has been drawn up and approved by the Student Union Board. Every semester \$7.50 is taken from the fees paid by each student and used for the operation of the Student Union. Of this amount about \$5.80 is used to pay off the debt and interest on the building itself, and for the personnel working for the Student Union Board. However, the Student Union is more than a building. It is a service organization which attempts to provide activities which are diversions from the drudgery of school life. For this service, approximately \$1.70 is paid by each student each semester. This is the money that the board works with. The following is a report of how this \$1.70 works for your enjoyment.

The music and films committee has been appropriated \$0.55 of this amount. This will be used mainly for the films seen every Sunday, and it is planned to have more films to be shown regularly on some other day of the week. In addition there will be more holiday classics, like "The Robe" which was shown last year.

The literary committee will have \$0.41 from each student to present more, interesting lectures like the series on communism that was given last year. \$0.48 will go to the mixer and dance committee to provide entertainment

for the concert plus one all-school mixer.

For the games and tournament committee, \$0.10 will be used to buy trophies and to send the champions in the table tennis and bowling tournaments to the regional tournaments. The special events committee will get \$0.03 to sponsor such activities as the homecoming queen contest and the freshman mixer.

So that the student union will continue to progress, \$0.08 is provided to send representatives to the Region VIII Conference where many ideas for the improvement of the student union will come. In addition to this, \$0.05 will be used for publicity, research, and other administrative costs that are necessary to keep the student union running smoothly.

This money is spent with the student in mind and it is hoped that he will make every effort to make use of these activities.

Foreign Students at MSM Get Scholarships

Three Foreign Student Scholarships have been granted for the 1962-63 academic year by Missouri School of Mines and Metallurgy. These scholarships are provided by the Board of Curators of the University of Missouri, of which the School of Mines and Metallurgy is a division, to assist worthy foreign students with the expense of their education here.

Recipients for this school year are Ahmet Ali Arzan, Onurcan Egeman and Javad Vakil.

Recipients have been announced for the Union Carbide Engineering Scholarships at Missouri School of Mines and Metallurgy by the Union Carbide Educational Fund and are awarded to outstanding students in the Departments of Mechanical, Metallurgical or Chemical Engineering.

Recipients are: Stephen Frederick Ganz, Samuel Russell Hurt, and Estel Dean Sprague.

Recipients are announced for the MSM Student Council and South Central Mo. Science Fair Scholarships at Missouri School of Mines and Metallurgy for this academic year. The MSM Stu-

COMPUTER
(Continued From Page 4)
puters are in operation up to 16 hours per day at the present and are expected to be in use 24 hours a day, seven days a week by Fall, 1963.

The popularity of the computer is shown by the fact that approximately 300 students are enrolled this semester in computer courses, and only the Math major curriculum requires them for graduation. Approximately one-third of the computer work is done for research and has aided many graduate students and faculty members in their work.

The Computer Center Committee has already recommended that plans be made to obtain sufficient state funds for the support of a much larger computer system in 1964.

The growth of the Missouri School of Mines Computer Center has been almost phenomenal during the past two years and moreover it must continue to grow at a rapid rate if the School is to maintain its position as one of the best schools of engineering and science.

dent Council makes a varying number of scholarships available each year to a Missouri high school student participating in the South Central Mo. Science Fair held annually at Rolla and the Board of Curators of the University of Missouri makes one scholarship available each year to a student exhibiting at the Fair.

Recipients are: Glenn Ellis Miller, George Michael Breuer and John Gilbert Morgan.

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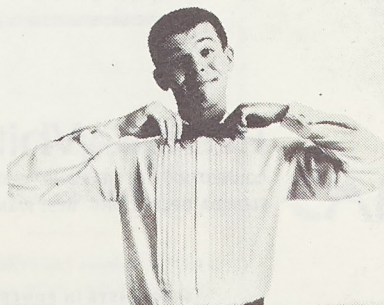
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"Jason, you dolt! You know I use only Mennen Skin Bracer after-shave lotion."
"Of course, sir. And this..."



"Indeed so, sir. And..."
"Tonight I need Skin Bracer. I'm going to the Prom. So take that stuff away and get me some Skin Bracer!"



"I've told you that Skin Bracer cools rather than burns. Because it's made with Menthol-Ice."
"Quite, sir. And this..."
"Besides, that crisp, long-lasting Bracer aroma has a fantastic effect on girls."



"But sir, this is Skin Bracer. They've just changed the bottle. Shall I open it now, sir?"



* ACTUALLY, YOU DON'T NEED A VALET TO APPRECIATE MENNEN SKIN BRACER. ALL YOU NEED IS A FACE!

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Student Council Minutes

Mark Martin announced a meeting of alternates Tuesday, Oct. 2, in the Student Union. Bids will be sent out on placing a sign on North U. S. 66 advertising the School. Articles are to be placed in the *Miner* publicizing the availability of school equipment to the student body.

Ed Benn asked about a parking lot for motorcycles. It is to be referred to the traffic committee.

Earl Neubauer mentioned several people had been fined for parking on the ROTC drill field on rainy days.

The motion was made by Gil-martin and seconded by Denny Meehan to appropriate twenty-five (\$25) dollars for office supplies for Prof. Lloyd's office as long as his office continued doing the paper work for the council. Motion passed.

The question was asked about organizations whose name was not on the Who's Who list. Shellman referred the question to the section which states any organization whose constitution has been approved by the Student

Council is eligible to grant Who's Who to their members.

The need for trees on campus was discussed.

The motion was made by Rich Jauer and seconded by Kettler to ask for Free Day to be Monday, December 17, 1962. Motion carried.

Jim Christen made the motion, seconded by Jung, to appropriate six-hundred-twenty-seven dollars and seventy cents (\$627.70) for the school band. Motion carried.

Dale Marshall reported that Lion's Club was in City Limits and under police jurisdiction.



**GIVE
GIVE
GIVE
APO Blood Drive
October 29-30**

Dr. W. James Deliver Talk To E. E. Meeting

The Electrical Engineering Department Colloquium has had several interesting meetings to date. The following two programs are scheduled. (1) On October 4, Dr. William James of the Chemical Department will give a talk on "Technical Education in France." Dr. James has spent one year in France on a Fulbright Teachers Exchange. (2) On October 11, Dr. Robert L. Carter from the Electrical Engineering Department at the University of Missouri, Columbia, will give a talk on "The Feasibility of Achieving Non-equilibrium Working Fluid." Dr. Carter is an authority in the area of plasma physics and low temperature physics. More interesting programs are now being planned by G. G. Skitek, Chairman of the Colloquium.

AIME Holds First Meeting of Year

The Mining section of the MSM chapter of A.I.M.E. held their first meeting of the year on Wednesday, September 26. Prof. G. E. Vaughn, chapter advisor, gave an interesting and informative talk concerning the advantages of belonging to the organization on both the local and national level. Refreshments were served following the meeting.

The organization is open to all mining and geology students at all levels, and they are invited to attend future meetings.

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to
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and
scientists

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The glamour and excitement of space age programs often obscure a fundamental fact. It is simply that farsightedness must be coupled with sound, practical, down-to-earth engineering if goals are to be attained. This is the philosophy upon which Pratt & Whitney Aircraft's position as a world leader in flight propulsion systems has been built.

Almost four decades of solid engineering achievement at Pratt & Whitney Aircraft can be credited to management's conviction that basic and applied research is essential to healthy progress. In addition to concentrated research and development efforts on advanced gas turbine and rocket engines, new and exciting effects are being explored in every field of aerospace, marine and industrial power application.

The challenge of the future is indicated by current programs. Presently Pratt & Whitney Aircraft is exploring the areas of technical knowledge in *magnetohydrodynamics . . . thermionic and thermoelectric conversions . . . hypersonic propulsion . . . fuel cells and nuclear power.*

If you have interests in common with us, if you look to the future but desire to take a down-to-earth approach to get there, investigate career opportunities at Pratt & Whitney Aircraft.

To help move tomorrow closer to today, we continually seek ambitious young engineers and scientists. Your degree? It can be a B.S., M.S. or Ph.D. in: **MECHANICAL • AERONAUTICAL • ELECTRICAL • CHEMICAL and NUCLEAR ENGINEERING • PHYSICS • CHEMISTRY • METALLURGY • CERAMICS • MATHEMATICS • ENGINEERING SCIENCE or APPLIED MECHANICS.** The field still broadens. The challenge grows greater. And a future of recognition and advancement may be here for you.

For further information regarding an engineering career at Pratt & Whitney Aircraft, consult your college placement officer or write to Mr. William L. Stoner, Engineering Department, Pratt & Whitney Aircraft, East Hartford 8, Connecticut.

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Student Union Research Poll

What types of activities would you suggest the Student Union have?

1. Movies
2. Mixers
3. Dances
4. Tournaments (Such as chess, checkers, etc.)
5. Others

What is your opinion as to how the Student Union should be improved or changed?

What is your opinion as to how previous Student Union movies could be improved upon?

Do you feel that you are getting full enjoyment from your Student Union? If not, why?



our Student esentatives

Alternates

Hardin Abrams, Ladimir Aubrecht, Peter Balser, William Burchill, John Cannady, Bernard Ebert, William Farrel Thomas Gardner, Ronald Henson, Rolli Herzog, James Holt, Gary Koch, David Layton, Harry Leamy, Robert Leona, Harold Meier, Daniel Miller, William Niemeir, William Norfleet, Morris Patrick, Glen Ragland, Ronald Busch, Harry Silipo, Charles Sing, Richard Skinner, James Stuart, Jack Seutterlin, Dean Townsend and Larry Unger.

As a special help to people intending to form a new organization, the Council has a check list for writing a constitution. Any one writing a constitution should have one of these check lists since the requirements set down in it must be met before a new constitution can pass the vote of the Council.

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Just Across the Campus

...testing program or by attending summer school, to rank as seniors this year. All have outstanding academic records.

Recipients are: William Edward Cracken, Robert Lee Ricketts, Jun David Smart, James David Sencer, Ronald William Umphrey, and William Randolph Wilson.

Alcoa Foundation

Two recipients have been named for this academic year for the Alcoa Foundation Scholarships at the Missouri School of Mines and Metallurgy. The Scholarships are taken from a grant provided by the Alcoa Aluminum Company of America and are based on scholarship, need, and personality, and made available to students majoring in Metallurgical Engineering.

Recipients are: Gerald Lee

Woodridge have been named as the recipients of the Dowell Incorporated Scholarships at Missouri School of Mines and Metallurgy for the 1962-63 academic year. These scholarships are made available by Dowell, Incorporated, Tulsa, Oklahoma, a division of Dow Chemical Company, and are awarded to outstanding students studying in the field of Petroleum Engineering.

Walsh Refractories Corporation

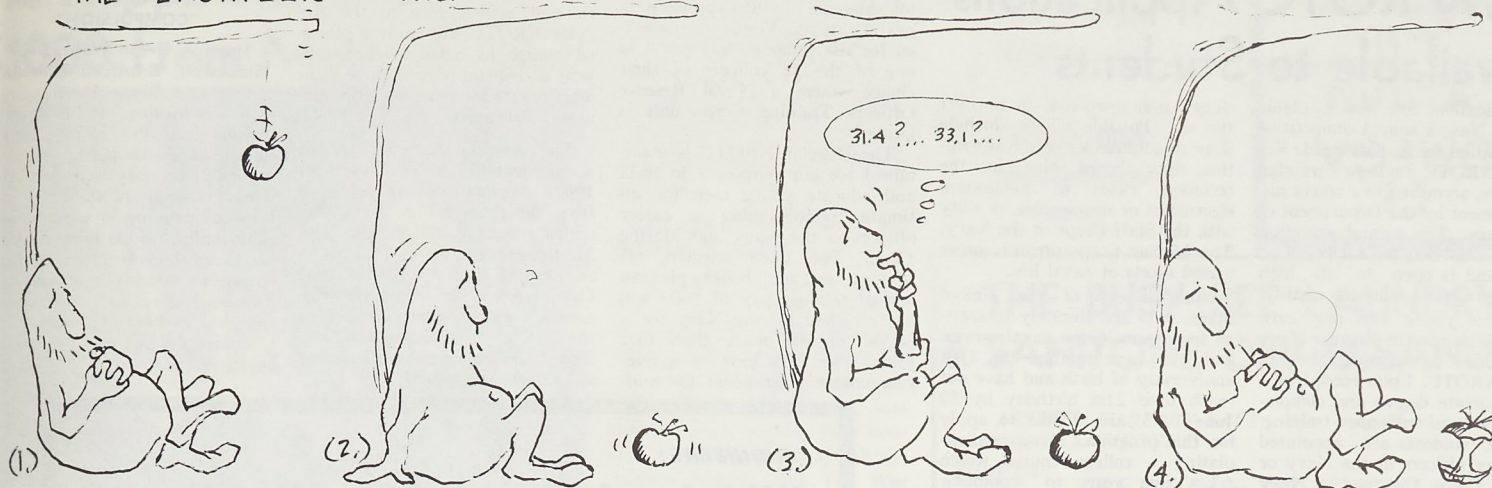
Gary Alan Pryor has been named as the recipient of the Walsh Refractories Corporation Scholarship at Missouri School of Mines and Metallurgy for the 1962-63 school year. This scholarship is awarded by the Walsh Refractories Corporation, St. Louis, Missouri, to an outstanding student in the Department of Ceramic Engineering.

tion under the direction of the new officers will be on Friday evening, Nov. 16, at the Daniel Boone Hotel, Columbia. General Robert F. Seedlock, Division Engineer of the U. S. Army Corps of Engineers, Missouri River Division, Omaha, Nebraska, will talk on "The Development of the Missouri River Basin." Members of the Society and their wives, as well as guests are invited to attend.

The next time that horse runs, it will be from a bottle of glue.

One Hollywood starlet has been married so often she had a drip and dry wedding dress."

THE ENGINEER - KRIEGER



More MSM Students Receive Scholarships

The Following MSM students received scholarships for the 1962-63 academic year:

Foundry Educational Foundation

Recipients are announced for this fall semester for the Foundry Educational Foundation Scholarships at the Missouri School of Mines and Metallurgy. The Foundry Educational Foundation, Cleveland, Ohio, has provided funds for a number of scholarships which are available to United States citizens who sincerely contemplate the foundry industry as a career after graduation and who have no commitments which will prevent their entering the industry. Candidates are selected on the basis of scholastic qualifications, personality and general fitness.

Recipients include: Frederick Edward Hartman, David Leo Schwaller, James Robert Heinzen, James Lee Noble, Kenneth Charles Pohlig, Howard Blaine Brooks, Martin Paul Goldstein, William Adolph Crede, James Leroy Hubbard, Richard Joseph Siegle, Richard Lloyd Martin, Robert Dale Koester, Frank David Wood, William Matthew Malone, and Gerald Gene Purcell.

MSM Alumni Association

The six scholarships provided by the MSM Alumni Association each year for students at the School of Mines and Metallurgy have been renewed to the recipients of last year. Although this is only the second year of college attendance for all these students, some of them have received sufficient hours of credit through the school testing program or by attending summer school, to rank as juniors this year. All have outstanding academic records.

Recipients are: William Edward McCracken, Robert Lee Ricketts, John David Smart, James David Spencer, Ronald William Umphrey, and William Randolph Wilson.

Alcoa Foundation

Two recipients have been named for this academic year for the Alcoa Foundation Scholarships at the Missouri School of Mines and Metallurgy. The Scholarships are taken from a grant provided the school by the Alcoa Aluminum Company of America and are based on scholarship, need, and personality, and made available to students majoring in Metallurgical Engineering.

Recipients are: Gerald Lee

Arnold, and Clinton Anthony Clark.

Texaco

Recipients have been named for the Texaco Scholarships at Missouri School of Mines and Metallurgy for the 1962-63 school year. These scholarships are provided through funds furnished by Texaco, Incorporated and are awarded to outstanding students in the fields of science and engineering allied to the petroleum industry.

Recipients are: Olin Kenneth Conley, Ion Allen Hull, Rudy Meldon Phillips, and James Daniel Philpott.

Carter United Club

Recipients are announced for the Carter United Club Scholarships at Missouri School of Mines and Metallurgy for this school year.

Recipients are: Tracy Robert Boyer, and Paul Kornberger.

Laverne Noyes

Larry Gene Winchester has been named as the recipient of the Laverne Noyes Scholarship at Missouri School of Mines and Metallurgy for the 1962-63 school year. This scholarship was established by the will of LaVerne Noyes of Chicago to assist with the education of worthy persons who served in the United States Armed Services during World War I and were honorably discharged, or to descendants by blood of such persons.

Dowell Incorporated Scholarships

Cody A. Hanna and James F. Woodriddle have been named as the recipients of the Dowell Incorporated Scholarships at Missouri School of Mines and Metallurgy for the 1962-63 academic year. These scholarships are made available by Dowell, Incorporated, Tulsa, Oklahoma, a division of Dow Chemical Company, and are awarded to outstanding students studying in the field of Petroleum Engineering.

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W. W. Milner New President Of Mo. ASCE

Walker W. Milner, associate professor of civil engineering at the University of Missouri, was elected president of the Mid-Missouri Section of the American Society of Civil Engineers. The Section met last week in Jefferson City, Mo., and elected the new officers.

Three other University professors were elected to offices at the meeting. Prof. J. Kent Roberts of the School of Mines and Metallurgy, Rolla, Mo., was elected first vice-president, and Prof. Paul R. Munger, Rolla campus, and Prof. William M. Sangster, Columbia campus, were elected representatives on the A.S.C.E. District 14 Council.

Other elected officers include Walter F. Vandelicht, Jr., second vice-president, and Coy L. Breuer, secretary-treasurer, both with the Missouri State Highway Department in Jefferson City, and Edward A. Dubrouillet, junior director, who is with the A. P. Green Fire Brick Company in Mexico, Mo.

The Mid-Missouri Section of A.S.C.E. includes 39 counties in the central part of the State from Iowa to Arkansas. Plans for the section for the coming year, Milner said, include an effort to bring about closer identification of the civil engineers from the Fort Leonard Wood and Springfield areas with the rest of the Section. He also told of plans to increase the membership of the Section and to hold a technical meeting at Rolla in the spring.

The first meeting of the Section under the direction of the new officers will be on Friday evening, Nov. 16, at the Daniel Boone Hotel, Columbia. General Robert F. Seedlock, Division Engineer of the U. S. Army Corps of Engineers, Missouri River Division, Omaha, Nebraska, will talk on "The Development of the Missouri River Basin." Members of the Society and their wives, as well as guests are invited to attend.

The next time that horse runs, it will be from a bottle of glue.

One Hollywood starlet has been married so often she had a drip and dry wedding dress."

Here Are Your Student Council Representatives

The following men are your representatives to the Student Council. Any time you, as students of the Missouri School of Mines, have something you feel should be brought to the attention of the Student Council it should be done through the representative of your organization. The Council is the student body's formal voice in campus affairs.

Members

Nick Alonge, Edward Benn, Wayne Benz, James Bertelsmeyer, John Brown, Frank Brunjes, Jere Callisto, Charles Campbell, James Christen, Clint Clark, Larry Gilmartin, John Gladysiewicz, Jeffery Herbst, John Hilgert, Richard Jauer, Robert Jung, Jerry Kettler, Kelly Martin, Mark Martin, Dale Marshall, Dennis Meehan, Milton Murry, Earl Neubauer, Michael O'Brien, Larry Pieman, Dennis Reeder, Douglas Schellman, Carl Steib and Tom Wilson.

Alternates

Hardin Abrams, Ladimir Aubrecht, Peter Balser, William Burchill, John Cannady, Bernard Ebert, William Farrel Thomas Gardner, Ronald Henson, Rolli Herzog, James Holt, Gary Koch, David Layton, Harry Leamy, Robert Leona, Harold Meier, Daniel Miller, William Niemeir, William Norfleet, Morris Patrick, Glen Ragland, Ronald Busch, Harry Silipo, Charles Sing, Richard Skinner, James Stuart, Jack Sutterlin, Dean Townsend and Larry Unger.

As a special help to people intending to form a new organization, the Council has a check list for writing a constitution. Any one writing a constitution should have one of these check lists since the requirements set down in it must be met before a new constitution can pass the vote of the Council.

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Navy ROTC Applications Available to Students

Applications are now available for the Navy's annual competitive examination for its nationwide Regular NROTC college training program, according to a recent announcement by the Department of the Navy. The mental examination is scheduled for 8 December, 1962, and is open to all high school graduates who can qualify.

Eligible young men may earn a commission in the Regular Navy or Marine Corps through the Regular NROTC. Upon receipt of a baccalaureate degree and completion of naval science training, NROTC students are appointed as career officers in the Navy or Marine Corps. Our modern Navy presents the young officer with many interesting and challenging

duty assignments on, in or over the sea. Possible billets include duty in submarines or naval aviation, duty aboard ships in the technical fields of nucleonics, electronics or engineering, or duty with the Staff Corps of the Navy. The Marine Corps presents other varied facets of naval life.

Male citizens of the United States who are sincerely interested in careers in the naval service and who have reached the 17th anniversary of birth and have not reached their 21st birthday by 30 June 1963, are eligible to apply for this program. Those contemplating a college course which takes five years to complete must not have reached their 20th birthday by 30 June 1963. Per-

sons attaining a qualifying score will be given the Navy's rigid midshipman physical examination next February. Young men selected for the program will enroll in one of the 52 colleges of their choice where a Naval Reserve Officers Training Corps unit is located.

The Regular NROTC is maintained for one purpose - to train and educate young men for ultimate commissioning as career officers in the Navy and Marine Corps. For those selected, all tuition, fees, and books, plus an annual retainer pay of \$600 will be furnished by the Navy for a period of not more than four years. The fifth year of a five-year course must be at the mid-

shipman's own expense. In addition to the normal college curriculum, midshipmen in the Regular NROTC will study a planned course in naval science subjects and spend part of three summers on training cruises with various Fleet units.

The deadline date for receipt of applications is 16 November 1962. Applications are available from the nearest U.S. Navy Recruiting Station or from Mr. John M. Brewer, counselor, Mr. Brewer, Room 305, Rolla Bldg., MSM Campus, has been provided with specific information concerning the NROTC program and will furnish informational bulletins to any interested student.

STUDENT UNION FILMS Sunday, October 14, 1962 "COMPULSION"

Starring Orson Wells, Dean Stockwell, Bradford Dillman, and Diane Varsi.

A fascinating and evocative insight into the 1920's sensational Loeb-Leopold murder, where two psychopathic students butcher a child for the thrill of proving a superhuman philosophy, and a humane genius saves them from an enraged society's bloody wrath. A powerful plea for understanding in a context of horror.

From the novel by Meyer Levin.

PARENTS' DAY

(Continued From Page 1)

"Cloud Chamber" equipment of the department. Then, passing the Old Met Building, housing the department of Mechanics and testing labs, and the metallurgy's foundry, the visitors went on to a high point of the tour, the Nuclear Reactor. Later, on returning for an extended look, they would have been told of the various safety precautions taken, the extreme water purity regulations, the size specifications that go into our ten-thousand watt training pool-type reactor.

It was pointed out that this year Parker Hall is relinquishing entertainment duties to the Student Union and is getting more library space and administrative offices. Unable to show off its interior, the new Physics building still stood witness to the growth of the technical educational fields, and of the school of Mines.

Classes in Sanitary Engineering were in progress in the Civil Engineering building and guests got a look at a lab in action. Also available for inspection were the hydraulic ram and the exhibits adjacent to the GE Auditorium.

Passing by the EE Building and its facilities in electronics, and power, the group got a look at the center of America's largest Engineering ROTC unit, and the aging center of our nevertheless thriving intramural and varsity athletic programs.

In the Mining Building, visitors could have viewed mineral testing equipment, such as one of the nation's largest centrifuges in this classification, as in all departments, class and lab facilities were open to inspection in the Graphics and Mining Departments.

Harris Hall, home of the mathematics departments and Computer Center was viewed, along with construction, and planned sites for the new power plant and M. E. Building addition. On to the Mechanical Engineering building and its abundant lab facilities, and a look at the original MSM building and the home of the humanities department so dearly

loved, the Rolla Building.

The Chemical Engineering Building was pointed out along with the Old Chem building, with its available class and storage space and the Dean's residence. Throughout the tour, such not immediately adjoining features as the Married Students Housing Dormitories, Intramural Fields and Golf Course, were pointed out.

Lunch time gave many visitors a much needed break and chance to discuss the non-academic side of campus life. In many fraternities a program was worked up to indoctrinate parents on the running of the house for the school year, and in some, this provided the annual chance for a Mothers' Club or other meeting.

But all too soon proceedings kicked off again at Jackling Field, when, at ten till two, the ROTC Band and Color Guard led flag raising ceremonies. An estimated 1200 parents joined the Miners and their supporters and stayed till the closing gun of an exciting Parents Day football exhibition. Two crack representatives of the military department, the Pershing Rifles and MSM ROTC Band put on their usually impressive display, with the musicians theme bearing a salute to the big name dance bands.

Soon after the game, many of the parents gathered at the Rolla High School Cafeteria, where the faculty of the School of Mines hosted the Annual Parents' Day Banquet. Mr. Henry P. Andrae, Attorney at Law, and member of the University of Missouri Board of Curators, spoke on a subject of importance to all, parents particularly, "The Future of Education at MSM."

Also attending besides MSM school officials were the university president, Mr. Elmer Ellis and his wife. The Glee Club presented a short program consisting of such songs as "Ride the Carousel" and "Halls of Glory," followed by a combined sing with the parents. Thus concluded a fine Parents' Day for 1962.

ENGINEERS:

Which of these Specifications Fit the Future of Your Career?

The list below probably contains a number of the things you consider important in selecting the job that will do the most for you. Many companies offer most of them, but to different degrees and in different ways. Check the list and then consider how Emerson Electric meets these specifications. You may decide that an Emerson job is worth investigating.

SPECIFICATION

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Good company growth	Emerson is a medium-size company on the move. It has grown from a \$40 million business to over \$200 million in just eight years.
Personal growth potential	Because Emerson continues to grow at an accelerated rate, positions continue to open at all levels. And Emerson believes in promotion from within.
Personal recognition opportunities	Because Emerson is not a giant, engineers retain their individuality and identity. Projects are assigned to informal small teams. Your work will be recognized and rewarded.
Challenging projects	Emerson is involved in many aerospace, defense and commercial projects: Thermo-lag (heat shield for rockets and satellites), Space radar, Honest John, Infra-red reconnaissance systems, Lasers, aerospace ground support equipment, automatic programmers and evaluators, and adaptive control systems are some of the space and military projects. In the commercial area advanced research is being done in electric motors, lighting, heating, cooling and ventilating products. Emerson's living effects laboratory has achieved national recognition.
Personal initiative encouragement	This is encouraged at Emerson. Facilities are made available to engineers with ideas. Emerson's sales staff sells whatever good ideas are developed by the engineering staff. At Emerson you follow your originated ideas through to finish.
Top salary and benefits	Too much to cover here, but Emerson ranks at the top in both of these categories. Specific information available at interview.
Solid company diversification	Though Emerson is strong in both aerospace and defense projects, the company is solidly based in diversified commercial and consumer products. Emerson is a leader in such products as lighting, heating, cooling and industrial electronics.
Strong corporate vitality	Emerson was founded in 1890. It has a stature that age can bring. But it also has a youthful vitality, vigorous and aggressive—without rigid or restrictive operating procedures.
Good educational facilities	Emerson has in-plant training courses as well as subsidized graduate study at Washington and St. Louis Universities.
Comfortable location	Emerson is located in suburban St. Louis, offering easy access to many housing developments, shopping areas, expressways and recreation. St. Louis itself offers top sports and cultural facilities, as well as a relatively low cost of living.
????????????????????	There are other matters that are important to you as an individual—more information needed concerning the points touched on here. Be sure you get the full story on the outstanding potential for you in this fast-moving organization.

EMERSON INVITES YOU TO TALK TO ITS REPRESENTATIVE:

If unable to arrange interview at this time, contact:

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UNION FILMS
October 14, 1962
"PULSION"

son Wells, Dean
radford Dillman,
Jane Varsi.
ng and evocative
the 1920's sensa-
Leopold murder,
psychopathic stu-
a child for the
ng a superhuman
and a humane gen-
from an enraged
body wrath. A
for understand-
xt of horror.
novel by Meyer

Phi Kappa Theta Gets \$1000 From Mothers' Club



At the annual meeting of the mothers of the men of Mu chapter of Phi Kappa Theta, Mrs. Croci, outgoing president of the club presented Dennis R. Trautman, president of the house with a check for \$1000.

The mothers club has a meeting as a whole every parents day to organize for the following year. During the year the various di-

visions of the club located in different cities in Missouri raise the money which is turned over to the chapter in several ways. Some of the activities include card parties and selling candy.

The chapter uses the money for improvements to the house such as new furniture, and this year it is to go towards a new basketball court and patio which is being constructed in the rear of the house.

Student Union Offers Enjoyment

The Student Union is again offering many features for the Miners to use. Three of the most frequented places are the TV room, music room, and the magazine rack.

The color television is getting plenty of use as usual.

Records to be played in the music room include selections from popular, western, jazz, and classical fields. Among the artists are Benny Goodman, Stan Kenton, the Hi-Los, Modern Jazz Quartet, Dave Brubeck, Julie London, Hollywood Bowl Symphony, Johnny Mathis, and Pee Wee Hunt. These records may be checked out at the candy counter.

The magazine rack is located in the TV room, and the magazines are contained in protective plastic covers. Selections include "Newsweek", "Hi-Fi Stereo Review", "Sports Illustrated", "Life", "Look", "Changing Times", "Science Digest", "Consumer Reports", and "Post". Students are asked to please return the magazines to the rack when they are finished with them.

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ORGANIZATION

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G. L. Christopher
WATCHES
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DRESS SHIRTS & SPORT SHIRTS 25c

SLACKS 55c SUITS \$1.10
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Mississippi Ranked 1st, UCLA Edges Ohio State

Mississippi, after whumping a good Houston football team by more than three times the expected margin, has moved into the no. 1 position in the country. Idle this week, the Rebs will have a week to ponder their new perch at the top.

2nd-ranked Wisconsin laid Indiana to rest by almost the exact predicted point spread. However, their first real major test will be this week against Notre Dame. The Irish felt Big Ten power last week and will be on the receiving end of more of the same this week.

The amazing Razorbacks of Arkansas made the jump from 8th to 3rd this week, and can well climb higher with an expected 25-point win over Baylor.

Harmon's no. 4 team, Louisiana State, also whipped its opponent—Georgia Tech—by the expected margin last Saturday. However, the Tigers jump from

the frying pan right into the fire as they tangle with 12th-rated Miami. The Hurricanes will drop their first of the season—L.S.U. by ten.

Staying very prominently in the national championship picture, Texas is the number 5 team. The opposition will be tougher this week, but the Longhorns will remain undefeated by rocking the Sooners of Oklahoma by seven-teen points.

Alabama nose-dived six rungs on the national ladder as a result of a little toestubbing against Vanderbilt. The Tide is favored to whip Houston this week by 16.

151 games were in the Harmon forecasting hopper last week, and 110 were picked correctly. He missed 33 and there were 8 ties for a .769 percentage. Season's batting average: 393 winners and 125 losers for .759.

And the lonely remaining undefeated pride of the East-7th-

ranked Penn State—takes on the Cadets of Army. It'll be the Nittany Lions over the Black Knights by thirteen.

That good-looking stranger in the no. 8 spot in the Harmon ratings is the surprising Bruin of U.C.L.A. The Uclans go from one extreme to the other as they are favored to massacre the Colorado State University Rams Friday night by about nine touchdowns.

Ohio State and Southern California round out the top ten. The Buckeyes will take it out on well-trampled Illinois by 39 points while the Trojans take a short vacation.

Two quickies: Georgia Tech, ranked 11th in spite of its defeat by L.S.U., will rebound against Tennessee by 11. And 15th-ranked Northwestern will nip 16th rated Minnesota by a solitaire.

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HAPPINESS CAN'T BUY MONEY

Can education bring happiness?

This is a question that in recent years has caused much lively debate and several hundred stabbings among American college professors. Some contend that if a student's intellect is sufficiently aroused, happiness will automatically follow. Others say that to concentrate on the intellect and ignore the rest of the personality can only lead to misery.

I myself favor the second view, and I offer in evidence the well-known case of Agathe Fusco.

Agathe, a forestry major, never got anything less than a straight "A", was awarded her B.T. (Bachelor of Trees) in only two years, her M.S.B. (Master of Sap and Bark) in only three, and her D.B.C. (Doctor of Blight and Cutworms) in only four.

Academic glory was hers. Her intellect was the envy of every intellect fan on campus. But was she happy? The answer, alas, was no. Agathe—she knew not why—was miserable, so miserable, in fact, that one day while walking across campus, she was suddenly so overcome with melancholy that she flung herself, weeping, upon the statue of the Founder.

By and by a liberal arts major named R. Twinkle Plenty came by with his yoyo. He noted Agathe's condition. "How come you're so unhappy, hey?" said R. Twinkle.

"Suppose you tell me, you dumb old liberal arts major," replied Agathe peevishly.



"All right, I will," said R. Twinkle. "You are unhappy for two reasons. First, because you have been so busy stuffing your intellect that you have gone and starved your psyche. I've got nothing against learning, mind you, but a person oughtn't to neglect the pleasant, gentle amenities of life—the fun things. Have you, for instance, ever been to a dance?"

Agathe shook her head.

"Have you ever watched a sunset? Written a poem? Smoked a Marlboro Cigarette?"

Agathe shook her head.

Well, we'll fix that right now!" said R. Twinkle and gave her a Marlboro and struck a match.

She puffed, and then for the first time in twelve or fifteen years, she smiled. "Wow!" she cried. "Marlboros are a fun thing! What flavor! What filter! What pack or box! What a lot to like! From now on I will smoke Marlboros, and never have another unhappy day!"

"Hold!" said R. Twinkle. "Marlboros alone will not solve your problem—only half of it. Remember I said there were two things making you unhappy?"

"Oh, yeah," said Agathe. "What's the other one?"

"How long have you had that bear trap on your foot?" said R. Twinkle.

"I stepped on it during a field trip in my freshman year," said Agathe. "I keep meaning to have it taken off."

"Allow me," said R. Twinkle and removed it.

"Land sakes, what a relief!" said Agathe, now totally happy, and took R. Twinkle's hand and led him to a Marlboro vendor's and then to a justice of the peace.

Today Agathe is a perfectly fulfilled woman, both intellect-wise and personality-wise. She lives in a darling split-level house with R. Twinkle and their 17 children, and she still keeps busy in the forestry game. Only last month, in fact, she became Consultant on Sawdust to the American Butchers Guild, she was named an Honorary Sequoia by the park commissioner of Las Vegas, and she published a best-selling book called *I was a Slippery Elm for the FBI*.

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The makers of Marlboro are pleased that Agathe is finally out of the woods—and so will you be if your goal is smoking pleasure. Just try a Marlboro.

The Harmon Football Forecast

TOP 20 TEAMS

1 - MISSISSIPPI	6 - ALABAMA	11 - GEORGIA TECH	16 - MINNESOTA
2 - WISCONSIN	7 - PENN STATE	12 - MIAMI, FLA.	17 - MICH. STATE
3 - ARKANSAS	8 - U.C.L.A.	13 - WASHINGTON	18 - IOWA
4 - L.S.U.	9 - OHIO STATE	14 - PURDUE	19 - AUBURN
5 - TEXAS	10 - SOUTHERN CAL	15 - N'WESTERN	20 - RICE

Friday, Oct. 12

Kentucky	25	Detroit	0
Mississippi State	21	Tulane	7
NE Missouri	32	Central Missouri	0
Pomona	30	California Tech	0
SE Louisiana	24	Florida	6
SE Oklahoma	18	Langston	13
SW Louisiana	20	Tufts	14
U. C. L. A.	23	Colorado State	0
West Chester	26	Bloomburg	0

East (Small Colleges contd.)

Rochester	15	Union	0
St. Lawrence	19	Alfred	0
Springfield	14	Colby	12
Susquehanna	16	Wagner	7
Temple	19	Lafayette	15
Tufts	13	Trinity	8
Ursinus	18	Wilkes	14
Wesleyan	13	Coast Guard	12
Youngstown	20	South'n Conn.	18

Sat., Oct. 13 — Major Colleges

Ablene Christian	23	Hardin-Simmons	6
Air Force	21	Houston	8
Alabama	24	Baylor	8
Arkansas	33	Chattanooga	0
Auburn	32	Chargen Washington	8
Boston University	14	Louisville	19
Bowling Green	21	Georgia	8
Clemson	17	Drown	13
Dartmouth	29	Louisville	19
Dayton	20	California	15
Duke	27	Tennessee	10
Georgia Tech	21	Holy Cross	7
Holy Cross	18	Furman	14
Howard College	15	Indiana	8
Iowa	20	Iowa State	12
Kansas	31	Marshall	0
Kent State	19	Miami, Florida	10
L. S. U.	20	North Carolina	7
Maryland	15	Southern Miss.	7
Memphis State	14	Michigan	21
Michigan State	21	Kansas State	0
Missouri	28	Cornell	12
Navy	32	North Carolina St.	10
Nebraska	21	Wichita	15
New Mexico State	20	Illinois	0
Northwestern	15	Xavier	9
Ohio State	39	Colorado	8
Ohio University	16	Los Angeles	7
Oklahoma State	13	Penn State	22
Pacific	30	Pittsburgh	10
Penn State	22	Princeton	29
Pittsburgh	10	Purdue	33
Princeton	29	Rice	15
Purdue	33	Rutgers	20
Rice	15	San Jose State	21
Rutgers	20	South Carolina	14
San Jose State	21	Syracuse	14
South Carolina	14	Texas	25
Syracuse	14	Texas A & M	17
Texas	25	Tulsa	17
Texas A & M	17	Utah	17
Tulsa	17	Utah State	21
Utah	17	Vanderbilt	22
Utah State	21	V. M. I.	13
Vanderbilt	22	V. P. I.	16
V. M. I.	13	Washington	17
V. P. I.	16	Washington State	23
Washington	17	West Texas	18
Washington State	23	William & Mary	21
West Texas	18	Wisconsin	30
William & Mary	21	Wyoming	23
Wisconsin	30	Yale	16
Wyoming	23		
Yale	16		

East (Small Colleges)

American Int'l	14	Northeastern	12
Amherst	34	Bowdoin	6
Bates	15	Worcester Tech	6
Cent. Connecticut	23	Brockport	19
Connecticut	23	Massachusetts	13
Delaware	25	Buffalo	8
Delaware Valley	18	King's College	7
East Stroudsburg	42	Cheney State	0
Hamilton	22	Hobart	12
Hofstra	14	Bridgeport	0
Ithaca	19	Cortland	6
Lehigh	20	Lehigh	20
Lycoming	23	Drexel	14
Muhlenberg	13	Lebanon Valley	6

Midwest (Small Colleges)

Adrian	13	Alma	0
Aldon	23	Anderson	6
Augustana, Ill.	14	North Central	13
Baker	19	Colby	12
Concordia, Neb.	14	Wagner	7
DePauw	27	Yankton	6
Ferris	22	Williamson	0
Illinois State	20	Kalamazoo	12
Iowa State College	15	Central Michigan	17
Kean State	23	Drake	12
Luther	24	Hastings	0
Midland, Neb.	23	Central Coll.	0
Missouri Valley	25	Sioux Falls	0
Moorhead, Minn.	19	St. Mary	7
Northern Illinois	27	Michigan Tech	7
Northern State, S.D.	31	Eastern Illinois	0
Omaha	25	Neb. Wesleyan	0
Parsons	27	Fort Hays	13
Peru State	21	NW Oklahoma	0
St. Joseph	7	Parsons	27
SE Missouri	20	Buena Vista	6
SW Oklahoma	21	Doane	6
Southwestern, Kan.	14	Ball State	0
Taylor	28	Missouri Mines	13
Wabash	28	SW Oklahoma	20
Westmar	19	Bethany, Kan.	0
Wheaton	22	Manchester	7
Wittenberg	42	Hanover	0

South (Small Colleges)

Appalachian	12	Catawba	6
Arkansas State	18	Miss. College	8
Bethany, W. V.	15	Washington & Jeff.	12
Carson-Newman	12	Elon	9
Delta State	13	Troy State	0
East Tennessee	10	East'n Kentucky	8
East Texas	17	San Houston	15
Fairmont	13	Salem	12
Georgetown	18	West Va. Tech	14
Lamar Tech	27	Sul Ross	0
Lenoir-Rhyne	8	Guilford	0
Louisiana Tech	16	Arlington	13
Millsaps	21	Southwestern, Tenn.	6
Morehead State	23	Austin Pany	0
Murray State	14	Martin Branch	7
Sewanee	18	Austin	15
SW Texas	13	S. F. Austin	0
Tennessee Tech	14	Nevada (U. of Cal)	8
Washington & Lee	24	Randolph-Macon	13
West Liberty	20	Concord	19

Far West (Small Colleges)

Adams State	25	Colo. Western	8
Ariz. State (Flag)	31	New Mex. Highlands	13
Cent. Washington	20	Puget Sound	13
East'n Washington	12	Pacific Lutheran	7
Fresno State	37	Calif. Poly (S.L.O.)	7
Humboldt State	23	Sacramento	0
Idaho State	29	Riverside	6
Lewis & Clark	25	Idaho College	0
Montana State	18	Idaho State	6
Nevada	27	Davis (U. of Cal)	8
Oregon State	15	Claremont	0
San Diego State	27	Redlands	0
San Francisco State	25	Santa Clara	7
Whittier	31	Calif. Western	0
Whitworth	21	West'n Washington	7

New Intramural Field Progress Has Fallen Behind Schedule

As most of you know, work has been progressing on new intramural facilities on the large tract of land on which the flag football and softball fields stand. Due to equipment failures and other difficulties by the construction contractor, the completion of these facilities, many of which were supposed to be in use this fall, has fallen behind schedule.

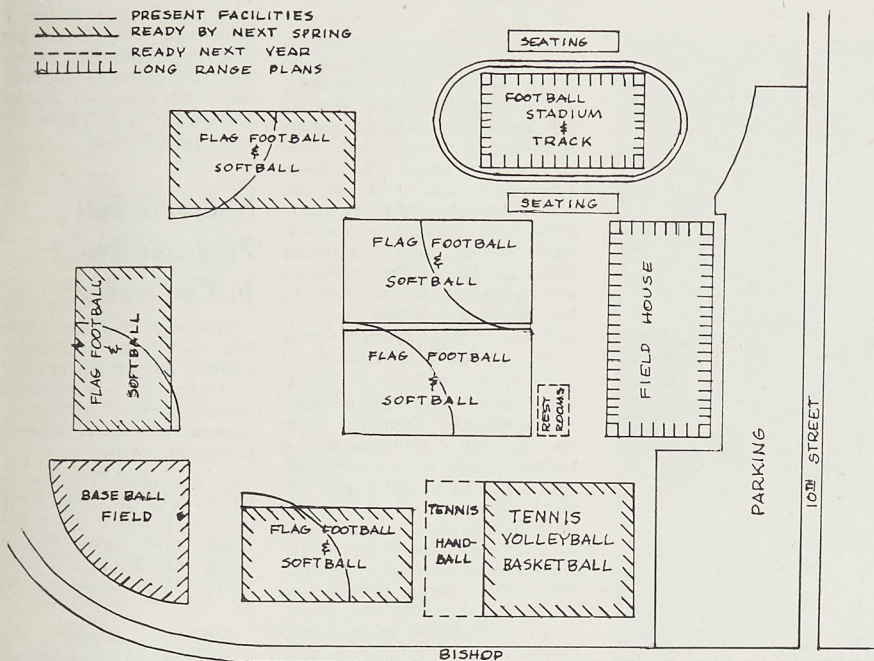
are already in use. The rest of these fields should be ready by next spring or fall. Also due for completion at this time will be an intercollegiate baseball diamond. This could mean that a varsity baseball team might be organized at MSM in the next few years. Another sorely needed item to be added is a small shelter containing men's and women's rest-

rooms. The land for the football stadium is being graded and seeded now and temporary bleachers could be set up to play intercollegiate football in the near future. The area set aside for the Field House is now being used for practice flag football fields.

The addition of these facilities was made necessary by the increased enrollment at MSM.

LEGEND:

- PRESENT FACILITIES
- READY BY NEXT SPRING
- READY NEXT YEAR
- LONG RANGE PLANS

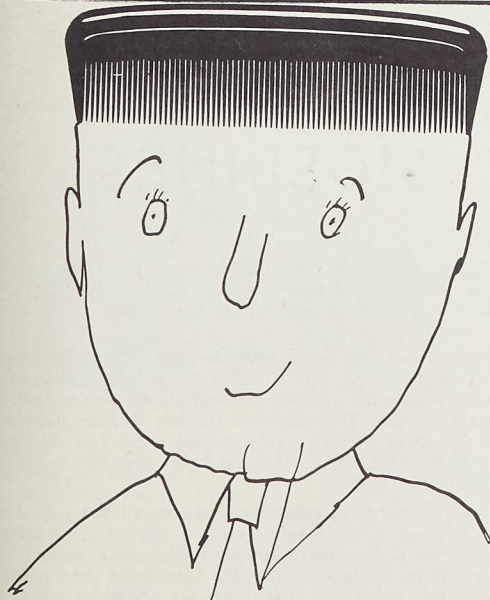


Included in the plans for this area are five tennis courts, three volleyball courts, and two basketball courts. The concrete for these courts is being poured now and they should be in use by next spring. Lighting should be installed by next fall. Next year additional tennis courts and four handball courts will be added on to this area.

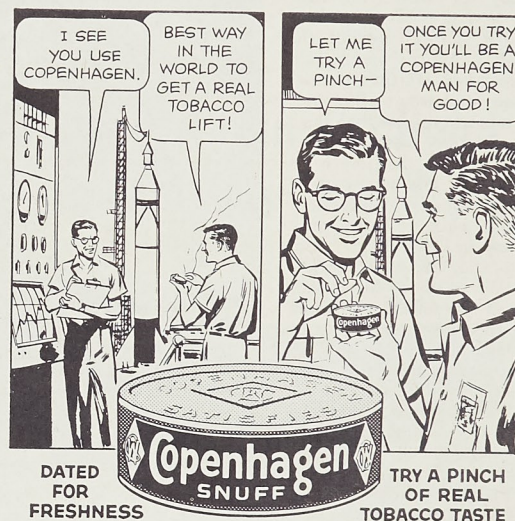
New flag football and softball fields are being graded and seeded now. A few new practice fields

rooms. There will also be an area in the building to protect the students in case of rain.

Also included in the plans for this area, is the building of a new Field House and Football Stadium. However, money for these projects has not been appropriated by the State Legislature yet, so the completion of these plans could be well in the future. If the Legislature appropriates the money the next time they set up their budget, we might have these much needed facilities in two or three



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Miners Lose Drive 2nd Half; Downed Third Straight Game

A capacity crowd of parents, students, and faculty members lined Jackling Field last Saturday to witness the annual Parents' Day football game. This year the University of Tennessee's Martin Branch visited MSM on a day that weatherwise started out gloomy but ended up a beautiful afternoon for football. Unfortunately the outcome of the game was rather dark as it resulted in the Miners' third straight defeat of the season.

Actually the Miners did fight back to tie a 12-0 advantage held by UTMB during most of the first half. Spirits were again dampened when Martin's Prather flipped one 43 yards to Bielewicz for a touchdown in the third quarter. Prather tossed another one to Fines in the fourth to make it 28-12. The never-say-die Miners did not give up, but instead came back to score once more making the final score Martin Branch 28, MSM 18.

Terry Wargo of the Miner ball club scored two touchdowns while George Gasparovic added one more. Dave Murrell and Jay Alford contributed the points after touchdowns.

Alford set a new school record for attempted passes, tossing 31 and completing 14 of those. This figures out to be a .451 percentage, which is far from Martin's .500 (8 of 16 attempted). Wargo tied a record when he caught his fifth pass of the day making a total gain of 87 yards and 2 TD's on all five.

The boys of MSM advanced to 23 first downs while the Vols were held to only 13. The Martin team compiled the larger number

when penalties are considered. UTMB was assessed 100 yards while the Miners were penalized only 35 yards.

In rushing, MSM gained 249

weather conditions continue to hamper the Miner practice schedule but hopes are high for Saturday's game against Cape Girardeau.

IT'S IN DAVE MURRELL'S HANDS



Athlete Of the Month

Terry Wargo, from Benld, Illinois, was selected, as the "M" Club, "Athlete of the month of September." Terry, who plays left-end on the football team, was

net yards as compared to Martin's 181. The average yards per try were 4.5 for the Silver and Gold and 3.5 for the Vols.

Wargo and Alford led in total individual yardage with 87 and 82 yards respectively. The Miners total for the game was 470 and Martin's was 462.

Lates classes and adverse

Miners Hope For More Success Against Cape

By Don Sobczak

After an exciting game with the Martin Branch of the University of Tennessee, our Missouri Miners will invade Southeast Missouri State located in Cape Girardeau, Missouri. The football stadium is located on campus at Bellevue and Broadway. For all you traveling fans, the game is scheduled to start at 8:00 p.m. Saturday evening. May I remind all the students to take your identification cards because the admission will be \$.50 plus an I. D. card.

First of all, the Cape team is comprised of mostly juniors and a few seniors and sophomores. The starting quarterback position will be toss-up between juniors Lane and Lynch with Lane having the edge so far this season. Fullback Broclus, at 210 pounds, will carry the heavy burden; while, the talented Brown, at right-halfback, poses as a double threat as far as the end-sweep option, pass or run, is concerned. He demonstrated this very effectively as was reported during Cape Girardeau's game last week.

The main attack, by the Southeast Missouri squad, will be based on the winged-T formation. From this they use a combination of a backfield man in motion along with a double winged-T plus the usual power sweeps that result from this formation. As of last Saturday, the Cape Girardeau Indians have demonstrated the basic ball control style of football. This means that they stick to a ground attack only passing intermittently during the game. It seems that they believe in the old proverb: "possession is nine-tenths of the law."

On defense, the Indians use a roving line, where they try to outguess our plays. Along with this they employ their linebackers as red-doggers; that is to say, the linebackers try to break up any pass attempts by the offense by charging into the opponents backfield. This could prove dangerous if Coach Bullman, navigating the Miners, uses an abundance of screen plays or button-hook pass plays.

At the present our Miner squad is going to perform without the services of Gary Koch, Bill Kauffman, and Robert Olsen. These are all valuable backfield men;

and if Coach Bullman has to do without them, the team's backfield will be lightened considerably to the tune of an average 165 pounds. Gary Voorhis, if need be, will be switched from his defensive backfield position to that of offense and John Henry, a sophomore, will take over the defensive position vacated by Voorhis.

So far this season, Cape Girardeau has an even 2 wins and 2 losses.

Although conference news has stated that Kirksville, Springfield and Cape Girardeau have the best pre-conference football records, our team will be out to "undermine" the "Indian village" at Cape Girardeau.

Kirksville Still Predicted No. 1 In Conference

How did the Miner conference foes look last weekend? The MIAA representatives suffered defeat by two nonconference opponents, enjoyed victory at the expense of two outsiders, and played in two ties.

It was tough that our squad had to be at the losing end of one of these games, but it was a well fought, well played game, that ended with Martin of Tennessee having 26 points to our Miners 18.

Southeast Missouri (Cape) fared better in sneaking past the Mississippians of Delta State. Cape stood off Delta State's try for a two point conversion and took home the victory 14-12.

Elsewhere in the MIAA Warrensburg State and Emporia State played to a 0-0 standoff. Nebraska Wesleyan took home a victory from Maryville State, 13-6. The victory enabled Nebraska Wesleyan to break a 20 game losing streak.

Springfield State (Mo.) and St. Benedict's fought to a 13-13 tie. Double 13's, look out Springfield!

Kirksville State stunned Pittsburg of Kansas, the No. 1 small college team of '61, with a devastating ground attack, 34-12.

SIDELINES

By Robert Fogler

Intramural football at MSM has become one of the most competitive and most followed sports on the program. Practically every organization on campus is represented by a team, for a total of twenty-four teams.

In previous years, the teams have been divided into three leagues. This arrangement is good, but it makes for an early elimination of a good team, along with the fact that the playoff system with three teams is rather unfair. This, added to the fact that too many games need to be played (7 by each team) pointed to the fact that another league should be established. This has been done this year, and it should bring better results.

An excellent change in rules that was effected last year was the addition of stick-on flags. Previously, flags were stuck between the players belts, but these proved unsatisfactory, since players had a tendency to tighten the belts so that the flags could not be removed. Another good rule states that first downs are gained by simply crossing the nearest stripe. This might seem unfair at times, but it averages out evenly, and also eliminates disagreements about measurements.

This year, the IM football picture, so far, is a toss-up. Since there are four leagues this year, another team will enter the playoffs. Last year the league winners were Triangle, Phi Kappa Theta, and Lambda Chi Alpha. In the final standings the teams finished in that order. Who will be the Champion this year is anybody's guess.



TERRY WARGO

selected for his outstanding play during the month of September. During this time he proved his worth, by snaring 10 passes for a total of 154 yards. He also showed outstanding ability at left defensive-end.

If Terry continues his fine all-around play, he is sure to be a good candidate for all-conference honors.

Terry, a Junior in the M. E. Department, is a member of A.S.M.E., "M" Club, Independents, and the Tech Club.

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