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MINER

MISSOURI SCHOOL OF MINES AND METALLURGY

VOLUME XXIII

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NUMBER 17

Mr. H. H. Kessler '24 Talks Before A I M E Chapter

Talks on "Foundry Practice And Cast Iron Manufacture"

Worthwhile indeed is membership in the student branch of the American Institute of Mining and Metallurgical Engineers when it presents to its members such likeable and revealing speakers as was Mr. H. H. Kessler of the Sorbo Process Engineers of St. Louis, Missouri and M. S. M. graduate of the class of '24, who spoke at the local A. I. M. E. meeting Friday afternoon, Jan. 29, in the Metallurgy building. "Foundry Practice and Cast Iron Manufacture" was the subject of Mr. Kessler's talk on what would seemingly appear to be a commonplace topic, but which, from the very start, developed into a fascinating revelation of the true status of cast iron in engineering today.

"Cast Iron", stated Mr. Kessler upon his introduction by Hugh Barron, president of the gathering of metal engineers to be, "is usually thought of as a hodge podge mixture of scrap iron and steel, with nickel and molybdenum being sometimes added for making the better grades." In the old hodge podge days there were often serious defects in the castings that were produced from cast iron. Of these the most common was unequal hardness of the various parts of the finished product. This often caused much trouble, especially when a casting surface was being machined, for the tool that was cutting easily through the soft portion was often prone to be broken upon striking the harder part. As a result cast iron gained a very unfavorable reputation and its production diminished as metal users substituted malleable steel, molybdenum steel, and other combinations in its place.

But in the last three or four years cast iron has come back. The secret of its remarkable rise to popularity again lies in one fact—that more a-

Continued on page three.

Student to Get A I M E Award

Scholarship To Dieffenbach For Next September

The Women's Auxiliary of the A. I. M. E. has awarded a two-year scholarship to Robert P. Dieffenbach, sophomore metallurgist, to go into effect next September. The scholarship carries three hundred dollars a year to spend, and there are no particular conditions attached.

The first notice that such an award might be made to some deserving student at the School of Mines was given in a letter to the Registrar from Mrs. Anna G. Nichols on Oct. 9th. Dieffenbach's name was proposed by Mr. Hubbard, and letters of recommendation were written by Mr. Hubbard and by Prof. C. Y. Clayton, head of the Met. Department, for whom Dieffenbach has been working since September. The award was made just a few days ago in Chicago, and Dieffenbach was notified by a letter from Mrs. Nichols.

Congratulations are in order for Robert Dieffenbach.

467 Students Now Attending School of Mines

As a result of the regular registration day on January 25, there are now 467 students on the MSM campus. The student body now consists of 148 freshmen, 116 sophomores, 95 juniors, 84 seniors, 12 graduates, and 12 unclassified students. The school now has 22 new students.

Of the 500 students enrolled at M. S. M. during the first semester of the present school year, 55 did not return for the second semester. This represents an actual loss of 48 students, seven having received their degrees in January.

The present enrollment is approximately the same as the school had four years ago. The largest MSM enrollment was in the second semester of the 1931-1932 school year, when 579 students were enrolled here. The students who graduated in January of this year have been offered favorable positions, which indicates the high standard standard which MSM graduates hold in the business world.

—M.S.M.—

Seniors Decide on Class Rings

Appleyard Presides at Meeting on Friday

The Seniors have finally decided upon the matter of class rings. At a special class meeting Friday, Jan. 29th, 11 o'clock in the auditorium of Parker Hall where agents of two jewelry companies were present and another firm was represented by proxy through W. G. Maloney, it was voted to secure the rings from the L. G. Balfour Company of Webster Groves, Missouri. This is the same company from whom the Miners had secured their class years a few years ago.

The ring, of which samples were shown around, is exactly of the same design and workmanship as that of Washington U. and St. Louis U.

The students, however, will not be limited to one type, for they will have the choice of the 10 carat gold type, the gold overlay ring, which has a silver base, or the burled gold ring. Pins, instead of rings, may be also had if desired. The usual stone present in each ring is the ruby, but here too the seniors have their choice for onyx, topaz, and even emerald and sapphire may be substituted. Of course the price will vary with the quality of ring and stone selected. The 10 carat gold ring containing the ruby is the standard student ring.

Each ring will have on it the degree of the student, the date of his graduation, and the emblem of M. S. M. On the inner side he may have the usual mine entrance or the R. O. T. C. emblem or the seal of Missouri.

Mr. F. A. Dooling, representative of the Balfour Company, will be back again at a later date, which will be announced by F. C. Appleyard, the Senior president. Then the size for each ring will be taken and the choice of ring or pin, stone, and emblem will be decided to the entire satisfaction of each student. If everyone will wholeheartedly cooperate at that time, the members of this year's graduating class will have an ever present memory of their college days that will be an aesthetic delight as well as a fraternal signifier that the wearer was an engineer and an alumnus of M. S. M.

Capt. Albert Stevens To Lecture Tonight In Parker Hall

Story of the National Geographic Society to be Told

A Scientific, Revealing, Thrilling General Lecture in Parker Auditorium of the story of The National Geographic Society—U. S. Army Air Corps Stratosphere Expedition to be told by its commander in person, Captain Albert W. Stevens

Wednesday, February 3, at 8:00 p. m.—the outstanding lecture in the field of exploration for 1936-7, "Adventures in the Stratosphere," will be given by Captain Albert W. Stevens, the man who brought the altitude record to the United States, in Parker Auditorium.

Accompanying this first-hand lecture of Captain Stevens' will be rare movies and unique slides, made on the flight, shown with the new Walker Silver Sheet motion picture and sound equipment recently installed in Parker Auditorium. This remarkable lecture, enhanced by these still and moving pictures, will hold the audience spellbound.

On November 11, 1935 Captain Albert W. Stevens and Captain Orvil Anderson, two U. S. Army Air Corps officers, attained an altitude of 13,711 miles, which is higher than any living thing has gone before, in Explorer II. This balloon was the biggest sphere man has ever constructed, towering 315 feet above the ground as it was being inflated and containing 3,700,000 cubic feet of helium. At this height, 24 or 25 parts of the earth's atmosphere lay below and was so thin that parachutes would not. The rotating pro-

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Old Students Back to Finish School

Also Number of New Students Register

A number of old students with advanced standing, who had dropped out of school before graduation, returned to school this semester. Some of them have been away from school as long as two or three years. They have been in various walks of business all of the way from the Geological Survey to the petroleum industry.

Among this group of boys are the following: Richard Love, Robert R. Kenyon, James McGregor, and Kenneth J. Stedelin, all of Rolla; John O. Hall and Edward Rowland Tragitt, of St. James; John C. Settle, of St. Louis; James Albert Vincent, of Appleton, Wisconsin; and Edward Rueff of New Franklin.

The following with advanced standing are entering the School of Mines this semester for the first time: James Alexander Brent, John Oliver Campbell, Erich Stephan Schifter, and Charles Elbert Boulson, of Rolla; Ralph Emerson Kelly, William Arthur Ross, Arthur Wm. Clarkson, and Paul S. Benglund, of St. Louis; Edward William Heiss, of Centralia; Charles Kenneth Tharp, of Houston, Texas; Marshall Ambrose Jeffers, of Kansas City; Philip Haile Pipkin, of Cape Girardeau; Alois Loranz Krodinger, of Maplewood; and Robert Wilcox Gregory, of Raymondville.

Alpha Psi Omega Hears Report of President

Last Thursday the Delta Chapter of Alpha Psi Omega, national dramatic fraternity, held a business meeting. Jack Long, president, reported to the members on his attendance to the fraternity's national convention that was held in St. Louis, December 28th.

Among those present at the convention were: E. Turner Stump, Grand Director, and F. P. Opp, Grand Business Manager.

The remainder of the business meeting was devoted to a discussion of the initiation of new pledges. The fine work of Alpha Psi Omega in their recent play, given early the first semester is remembered as being distinctive of the local chapter.

The tentative pledges are Mary Tyson, Richard McKee, and Joe Mooney.

—M.S.M.—

White Talks Before Radio Club

Talks on Single Side Band and Transmission

The radio club met Wednesday evening, Jan. 27, in Norwood Hall. The meeting was opened by the reading of the minutes of the last meeting. W. D. White then gave a talk on single side band and suppressed carrier transmission.

White explained that all the intelligibility of a modulated signal is carried in the side band. Each side band consists of one-sixth of the total radiated power with 100 percent modulation. By the elimination of the carrier the received signal would be more intelligible with the same radiated power. With such methods a carrier must be supplied at the receiving end by means of a local oscillator and also be in phase with it. It is very difficult to obtain such a set-up. However, if one side band is eliminated, the requirements on the local oscillator are not so rigid. One of the side bands is eliminated by modulating a low frequency oscillator. The output of this oscillator is used to modulate a second oscillator. This procedure places the two side bands approximately sixty kilocycles apart. With such frequency separation it is possible to eliminate one of the side bands by the use of a band pass filter. The output of the second oscillator is then fed into a radio frequency amplifier similar to the class B type.

White mentioned that this system is not adapted to music because of the distortion involved. The only instance of which White knew that this system is used is the low frequency New York to London transatlantic telephone.

—M.S.M.—

ST. PAT'S BOARD

The St. Pat's Board held a regular business meeting Wednesday evening at 7:00 o'clock in the club room. The meeting was for the sole purpose of discussing plans for the coming St. Pat's celebration, such as type of programs, orchestra, decorations, etc. Plans for making money for the board were also brought up at this meeting, which are not definite as yet.

—M.S.M.—

METALLURGY NEWS

W. E. Rummers, '24, assistant to the Sales Manager of the Electro-Metallurgical Sales Corporation, Chicago, talked to the Miners and Metallurgists on Friday, January 22,

Rolla Sleeps While MSM Hams Assist Flood Relief Works

Students Spent All Night at Controls Atop Gym

While Rolla slept during the last week, some of our school amateurs were receiving, and relaying distress calls from the stricken flood area. Calls for boats, medicine, food, and clothing passed through their hands, calls vibrant with the human tragedy being enacted in Ohio, Kentucky, and many other unfortunate areas. Several times these self-appointed rescuers glanced through the windows of the "shack" atop Jackling Gymnasium to see the sun rising, and hurried to get a bite of breakfast before attending 8 o'clock class. Many other times they stayed by their "rig" until drowsiness forced them to abandon it for the night. Elmer Peters and Gene Olcott were the principle characters in this secluded drama and were assisted by several other zealous students. This is a typical example of the work being carried on all over the nation by short wave "hams" who stepped into the breach left when telegraph and telephone lines were swept away and formed the only means of communication for the panic stricken people, who were watching their homes being inundate, with the outside world. These "hams" stepped inao the breach with the clear understanding that no material recompense would ever be theirs, that their only reward would be their satisfaction in knowing that they were there when the call came.

The M. S. M. transmitter, W9PCT, belongs to the E. E. department and is open to those students who own first class amateur license.

—M. S. M.—

Independents Hold Meeting Monday

Drive Launched to Raise Money For Pins

At the Independent meeting Monday evening, a drive was launched to collect money from Independent members who wish to purchase pins. An order of at least 100 pins must be placed before the pins are made. In the event that orders for less than 100 are received, the number of pins desired will be quoted to the manufacturer for his refusal or acceptance. If the order is refused, the money collected will be refunded.

The following members of the governing board will accept the money for the pins: Wilkey, Volz, Barclay, Logan, Mooney, W. Ellis, Alcott, and Caplovitz.

The order will either be placed or dropped within ten days. Independents wishing to order pins are urged to see one of the above mentioned men immediately.

Plans for the St. Pat's dance were discussed. Barclay and Harris were appointed to contact orchestras and make recommendations at the next meeting.

—M.S.M.—

A. I. E. E. MEETING POSTPONED

The A. I. E. E. meeting scheduled for this evening has been postponed until February 10th.

from 10 to 12. His subject was the "Use of Ferro Alloys."

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FACULTY ADVISER.....DR. J. W. BARLEY

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FRESHMEN! ITS UP TO YOU.

Recently the MINER carried a notice of the faculty to the effect that "Class Day" or the "Freshmen Circus", in its present form had been abolished. This is, apparently, a step in the right direction toward the proper treatment of incoming freshmen.

The special committee which recommended the abolition of "Class Day" also recommended that a new plan be presented to the faculty for approval. The freshmen class this year seems to be above the average inasmuch as they also feel that the playful treatment to which they have been subjected is not so much fun either the sophomore or freshmen class. Many feel that they have been treated a little unfairly but do not hold this treatment against next year's freshmen class.

The freshmen class of this year has the sole right to draw up plans for the initiation of next year's new comers. It is hoped that the freshmen class will plan a program which will be interesting to both classes as well as spectators. There is no reason at all why a program of this sort should not be planned and presented to the faculty for approval.

Sophomores should not consider themselves any better than freshmen. Their intellectual ability is not above their lower classmates. Perhaps if sophomores knew the real meaning of sophomore they would not feel so superior. A person acquainted with the Greek language will point out that sophomore means "wise fool". Not all the blame for the treatment of freshmen should be placed upon the sophomore class as the upper classes are equally, if not more so, the blame for this over expression of authority.

Next year we hope to see the sophomore class treating the freshmen class in the way they wanted to be treated.

M.S.M.

Most every day there comes our way a chance that may seem small. And in our wait for something great we don't grasp it at all. We often make a big mistake when small things we don't try. Large things do grow before we know, from small ones that slipped by. Let's lose our greed—let's show some speed and every small chance seize. Our work each day let's make "O.K." Let's do things that will please. Though they seem small, let's do them all with vim and grit and stress. Each little thing results will bring that we build a great success.

M.S.M.

Life is a game of cards. Reliability is the ace, industry is the king, politeness the queen, thrift the jack; common sense is playing to best advantage the cards you draw. And every day as the game proceeds, you will find the ace, king, queen, jack, in your hand, and opportunity to use them.—Ed Howe.

M. S. M.

The universe pays every man in his own coin; if you smile, it smiles upon you in return; if you sing, you will be invited into gay company, if you think, you will be entertained by thinkers; and if you love the world earnestly seek for the good that is therein, it will pour into your lap the treasures of the earth.

Gleanings From Our Exchanges

The Associated Student's Union is now under fire from various sources. The National Council has expressed as the stand of the union, a desire to help the Spanish government by supplies and money. Now this view seems to be very much in contradiction their Oxford pledge, which is: "We agree not to support this (U. S.) government in any war which it may undertake." They explain this inconsistency of policy by saying that if the Fascists gain control of the Spanish government by force they will attempt the same thing in the United States.

Aunt Phoebe's Dept.

Dear Aunt Phoebe:
I have water on the knee. What shall I do?

—Agitated.

Dear Agitated:
Wear Pumps.
Auntie.
—Tribune.

According to a report read at a convention of educators in Atlantic City recently, only two out of seven freshmen ever graduate from college. This is explained as being caused by the majority of the students feeling intellectually satisfied after two years of college work. This would point to a junior college as the best place for the majority to go. The five following situations are recommended as cases which should attend a junior college rather than a four-year college: (1) Those needing personal attention possible with a small group, (2) Ones having finances for only two years, (3) Persons desiring to take a job their third year, (4) Those who are undecided as to curriculum, (5) Those whose intellectual interests do not continue for four years.

Him: "Do you like co-eds who talk a lot or the other kind?"

He: "What other kind?"

The college at San Jose gives out life-time athletic passes to students who have lettered at the college, which is no more than right.

After three years of intensive study, Dr. John B. Wilbur of the C. E. department at Massachusetts Institute of Technology announced the completion of a calculator designed to solve the most difficult of engineering problems. The feature which is most astounding is its ability to solve an equation in nine unknowns. It weighs a ton and has 13,000 separate pieces in its body.

—Oredigger.

Then there's the freshe who still thinks a football coach has four wheels.

The furor created at Washington University (St. Louis) by the editor of the "Student Life", college newspaper, seems to have come to a showdown now with the resignation of Roland Meyer as editor. The first provocation came in last October when Meyer insisted on re-printing editorials of metropolitan newspapers commenting on the school barring three scholarship students because they criticized the R. O. T. C. Meyer was backed up by the student body. He threatened to resign at this time but things quieted down some until recently when he did resign and accepted a job as part-time editor of the "University City Journal-News." This was a good example of an editor backing up the belief of the student body in the face of faculty disapproval. Mr. Meyer is to be congratulated for his ideals.

If you want the college paradise, Russia is your place. In Russian college students are paid a certain amount each month to do their home work.

TECHNICAL NEWS BY E. L. CLARIDGE

A Strange Comparison

Man is essentially a moving draw-bridge with grapples, flue intake, and control room on the top of the up-ended bridge span, according to William K. Gregory, Professor at Columbia University and Curator of Comparative Anatomy and Ichthyology of the American Museum of Natural History. This authority traces, in a recent article in Natural History, the development of skeletal structures in the vertebrate animal's in comparison with bridge designs from the simple fishes of prehistoric times to the complicated structure of man today. Mechanically speaking, the only difference between man and a simple one span bridge is that man has developed machinery to up-end this span on two of the end piers, upon which he moves about by means of certain reciprocating "engines" or muscles, has transformed the other two end piers into grappling hooks, and has put at the bridge-head a control room and fuel intake. Some of Prof. Gregory's comparisons of animals with various bridge designs are striking in their accuracy.

Page The Alchemists!

Among the many theories existing as to the formation of the diamond, that of Professor Simmler, of Switzerland, is certainly not the least probable. . . If carbon be soluble in liquid carbonic acid, it would then only be necessary to subject the solvent to slow evaporation; the carbon would thereby be deposited, and, by taking proper care, assume crystalline forms.—From "50 years ago in Scientific American." It seems that the spirit of the alchemists was not yet dead in 1887; they were still trying to get something for nothing by chemical means. Even the great chemist Moissan was bitten by this

fever at one time—he was one of the first to actually make an artificial diamond. He prepared them by cooling very rapidly molten iron containing dissolved carbon. The enormously high internal pressure combined with the originally high temperature produced microscopic crystals of carbon, diamonds, in other words. But attempts to make larger diamonds were all unsuccessful, though most other gems are now artificially prepared.

Maggots

Blowfly Maggots have had in the past a curious history in the attitude of medical science toward their presence in infected wounds. For ages past they were considered harmful, horrible, and disgusting. Then, especially in war times, surgeons began to notice that bad wounds infested with maggots would, after cleaning and with proper care, heal almost immediately, while similar wounds not infested with maggots would often cause loss of the limb or even death. Later it was definitely proven that the maggots exercised a healing influence. Dr. William Robinson of the United States Bureau of Entomology and Plant Quarantine then set to work on the problem of producing sterile, "socially eligible" maggots. This was accomplished, and for some time these purified maggots were used in extreme cases of bone diseases and other deeprooted flesh and bone diseases. At last, in 1935, Dr. Robinson announced the isolation of a substance called allantoin from the excretions of maggots, which is actually responsible for the healing action of the maggots in he wounds. A weak solution of allantoin soaked in the bandages on a wound proved many times as effective

Fraternity Highlights

By Ruemmler

THETA TAU

Theta Tau was founded at the University of Minnesota on October 15, 1904. It was from the first intended to be a professional general engineering fraternity to inculcate high ethical and professional standards, and to foster close fraternal relations among its members. Membership is limited to students of engineering of "personal worthiness and of promising engineering ability." Its scholastic standards are high. All of the founders were students of mining engineering and in 1911 an attempt was made by some of the members to change the policy to mining engineering only. This failed because the Alpha chapter had from the first admitted students of other engineering courses. On account of its numerous mining engineering and geologist membership the fraternity has been particularly favorable to those colleges or institutions relating to the mineral industry. Its general policy however is to enter any first class engineering college or university, and each chapter is permitted to select its members from students following any courses in engineering or geology, it may desire. It does not permit its members to join other engineering fraternities, either general or departmental, except honorary scholastic organizations, but it admits members of the general college fraternities.

Up to 1911 the fraternity was also known as "Hammer and Tongs", but it then adopted as its name the Greek letters which has always appeared on its badge.

The Iota Chapter of Theta Tau had its inception at the Missouri School of Mines, February 5, 1916. Theta Tau does not maintain a house on this campus. Prominent Theta Tau alumni on the M. S. M. campus are: Dr. C. H. Fulton, Dr. C. V. Mann, Dr. S. R. B. Cooke, Dr. H. A. Buehler, F. D. DeVaney, H. C. Bolon, and E. L. Stout. The present officers of Theta Tau are:

Regent	Logan
Vice-Regent	Busch
Scribe	Luder
Treasurer	Phillips
Record Sec'y	Lanier
Outer Guard	Breuer
Inner Guard	Frame

tive as maggots. But shortly after its discovery, when the structural formula of allantoin was found, it began to be suspected that the chemical urea, commonly found in urine, is the actual healing agent. It had been known for some time that urine was beneficial in cases similar to those in which maggots were used. The structural formula of allantoin is written in the form of a square, with a N H and a C O group on the bottom of the square and a N H and a C H group on the top; with a string of groups N H - C O - N H 2 written after the C H group on the upper right hand corner. This string of groups tacked on the corner is the formula for urea. It was found in 1936 that this urea was broken off of the allantoin molecule in wounds, and is the actual healing agent. A two percent solution of urea is found to be the most efficient preparation. Singularly enough, urine is approximately a two percent solution of urea. So now maggots are again relegated to their old ignominious position in medical science. Urea is quite agreeable as a medicine, having no bad odor or sensory effect on the wound. Urea is a rather famous chemical, being the first organic chemical to be synthesized from inorganic chemicals; Wohler did this in 1828. It is now commercially prepared from ammonia and carbon dioxide.

M.S.M.

Harold H. Isbell, former production manager of the Columbia Broadcasting system, is directing a course in radio technique, both acting and writing, at Northwestern University.

A. I. M. E.

Continued from page one
loys and less silica are used in the foundries today. The result is that cast iron now responds to heat treatment "The periodicals will soon be full of the heat treating of cast iron," remarked Mr. Kessler at this point in his talk.

In order to make a stronger and better iron there are two things that must be done. Firstly, the unstable carbides must be broken up and secondly, a good matrix must be produced. To the original iron, which may be either pig or scrap that has been melted in a furnace, of which the cupolo is the most common, but which nowadays is being supplanted by the electric, the indirect arc, and the rotating oil fired furnaces, various metals or alloys are added under careful supervision until the desired composition has been secured. Mr. Kessler here launched into a technical discussion of the carbide content effects, explaining his points with the aid of a blackboard graph. Nickel, chromium, molybdenum, vanadium, titanium, sulphur, phosphorus, and silica are some of the substances that are added in exactly calculated quantities. By their use the degree of hardness of the cast iron can be controlled. The finished product is thus of uniform and exact hardness, and it is capable of heat treatment in addition.

Cast iron is now taking the place of steel in many instances. Mr. Kessler classified it thus under five headings—hard stress wear, hard rolling and abrasive wear, heat resistance, pressure castings, and special iron. He elaborated on the supremacy of cast iron in each of these phases when used correctly. The one defect in cast iron, however, is that it cannot withstand shock.

"There will be a very big field in the gray iron industry and more progress will be made in the cast iron foundries than in the steel plants," remarked Mr. Kessler at this stage, for "a good iron casting used in the right place is better than a steel casting because of its higher compression value."

Mr. Kessler also imparted many of the "tricks" of foundry practice to his audience as he covered the methods of making cast iron for various uses.

Mr. Kessler's only fear for the future of cast iron is that the foundry men will exploit cast iron, just as the alloy manufacturers have done to their detriment, for whenever a metal fails in one application, it loses its reputation throughout its whole scope.

Needless to say, the large number of mining and metallurgical students present enjoyed Mr. Kessler's talk greatly.

M.S.M.

DR. STEVENS HERE

Continued from Page One

pellor on the gondola was useless, gripping nothing. Explorer II was hanging in practically a vacuum. The sky above them was a deep and the earth was so remote that it seemed like the moon at close range. No activity of life was discernible. The temperature was lower at 40,000 feet than at 72,000 feet. The sun's rays were unbelievably intense. To look at the sun through one of the port holes was blinding. For eight hours and thirteen minutes, these men worked feverishly watching instruments of every known variety. This was the third attempt of The National Geographic Society to bring the stratosphere record to America. During the entire flight, Explorer II was in radio communication with the earth. Broadcasts were sent over radio networks and the men conversed with airplanes, including the China Clipper. Conversation was directly held with London, England. These and many other interesting features of this lecture will make your attendance well worth while.

The public is cordially invited. For those not holding Student Activity Membership cards, the admission be fifty cents for adults and twenty-five cents for those under the age of sixteen years.

Mo. Society of Professional Engineers Applauded By Sister Societies

Echoes of the action of the Missouri Society of Professional Engineers in forming a State Society affiliated with the National Society of Professional Engineers as reported on the 1st column of the Rolla New Era have been heard all over the country. This article was telegraphed, read and greeted with applause and cheers by the New Jersey Association of Professional Engineers and Land Surveyors at their 17th Annual Meeting and Convention, over 500 strong, at the Hotel Alexander Hamilton in Paterson, New Jersey on January 16, 1937.

Similar action was taken by the Connecticut Society of Professional Engineers at their meeting in Bridgeport, Conn., on Jan. 18th.

The New York State Society of Professional Engineers has since taken similar action and copies of the New Era article have been forwarded to all the other sister state

societies of professional engineers. Greetings and congratulations are being sent to Dr. C. E. Bardsley of the School of Mines and his associates in this splendid action in advancing the status of the profession and their opportunities to properly serve the nation and its people. The 38 states who already have laws properly functioning to protect the public from incompetent and unethical practitioners claiming to be engineers hope that the Missouri Legislature will enact suitable engineering control laws to similarly protect her citizens.

It is hoped that the Missouri citizens, engineers and legislators will support such legislation to a man and that every truly ethical and qualified professional engineer will join the Missouri Society of Professional Engineers to advance this ethical movement, and the other aims and objectives of the Society.

Tulsa Alumni Give Dinner Dance

The Tulsa Alumni of M.S.M. celebrated the holidays with an informal dinner and dance. Thirty-three Miners, their wives, and friends gathered at the recently opened Casa Del Tonio on the evening of Dec. 28, 1936.

After the dinner the remainder of

as its importance cannot be over-estimated.

The Professional Engineers throughout the country are sponsoring and backing besides improved laws, such matters as Flood Control, Soil Conservation, enlarged College Curricula, Higher requirements for entrance and graduation, law enforcement, safety regulations, proper support of the State Land Grant Colleges, etc.

M.S.M.

Some people get all the life kicked out of them by trying to get a kick out of life.

the evening was spent in dancing, renewing old friendships, and swapping yarns about their experiences while in school and since leaving. All those present enjoyed themselves and we hope to make this an annual affair. The Miners present were: Claude "Feet" Valerius, Jed Burnham, 'K' Murphy, Bill Keeler, Bob Ledford, C. F. Luckfield, Jerry Couch, Frank Leach, Joe Jarboe, A. H. 'Pete' Kemp, Mrs. Eva Hirdler Green, Mayfield Huff, P. A. Smith, and A. W. 'Spoo' Walker.

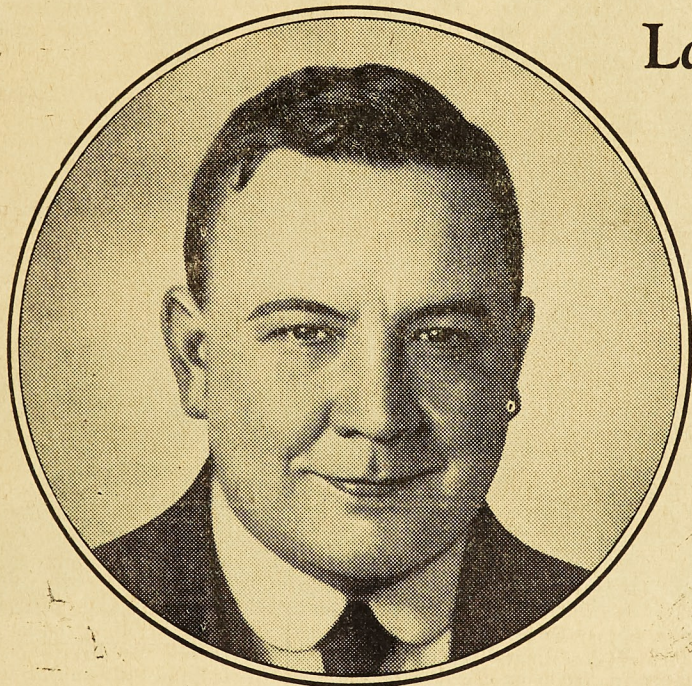
These Miners and the others of Tulsa and vicinity also hold occasional picnics and dances, as well as regular noon luncheons every Friday on the mezzanine at Michaelis' Cafeteria. Plans are already on foot for our third annual Little Miners' St. Pat's for all those unable to make the trip to Rolla.

We extend an invitation to all Tulsa Miners to join in our activities and send cordial New Year's greetings to all Miners everywhere, with the hope that they will visit us when in Tulsa.

By J. M. Wanenmacher, Secretary.

Metropolitan Opera Star chooses light smoke for his throat

Lauritz Melchior says:



"The hardest test I can give a cigarette is to try its effect on my throat after hours of intense rehearsal. I've found that a light smoke meets this test. And so, although I am not a constant smoker, I favor Lucky Strike for the sake of my throat. And, incidentally, so does my wife. When we go back to Europe we never forget to take along a good supply of Luckies."

Lauritz Melchior



THE FINEST TOBACCO—
"THE CREAM OF THE CROP"

An independent survey was made recently among professional men and women—lawyers, doctors, lecturers, scientists, etc. Of those who said they smoke cigarettes, 87% stated they personally prefer a light smoke.

Mr. Melchior verifies the wisdom of this preference, and so do other leading artists of the radio, stage, screen, and opera. Their voices are their fortunes. That's why so many of them smoke Luckies. You, too, can have the throat protection of Luckies—a light smoke, free of certain harsh irritants removed by the exclusive process "It's Toasted". Luckies are gentle on the throat!

A Light Smoke

"It's Toasted"—Your Throat Protection

AGAINST IRRITATION—AGAINST COUGH

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Reprinted from the St. Louis Star-Times of Saturday, January 23.

THE MINERS Devote Too Much Time to Their Studies to Specialize on Their Athletic Teams

Alumni of School Too Scattered to Build Up Proper Interest, Coach Says

"Good Old Days" of School's Football Supremacy Recalled

BY RAY J. GILLESPIE
Of the Star-Times Sport Staff.

Jan. 23.—A strict eligibility code and a widely-scattered alumni body are described here as important reasons why the Missouri School of Mines' athletic teams are not the great teams they used to be.

Boys who attend the School of Mines at Rolla come here to learn—and not to play football, basketball or baseball, and the men who graduate as mining engineers, electrical engineers and other tradesmen, make their homes in various parts of the world, so far from Rolla that they eventually lose all interest in the "old school" and its affairs. At least, these are the opinions of Rolla citizens, and they are shared by Harold Grant, athletic director of the school.

"Time was," Grant explained, "when the Missouri School of Mines was a power in sports. For instance, our football team of 1914 won eight straight games, rolling up 540 points, while holding the opposition scoreless. That Miner team trimmed St. Louis U., 63-0; Washington, 19-0, Arkansas, 40-0, and Missouri, 9-0. But those were the days when the school specialized in athletics and made a good job of it. It's a far different story today, however."

He pointed out that students at the Missouri School of Mines must carry twenty hours of school work per week, whereas at many other schools the students carry but eleven or twelve hours of work. In order to be eligible for athletic activity at Rolla, a student must have passing grades for twelve hours of work, compared to the seven and a half-hour requirement out of ten calendar hours at the other M. I. A. A. schools.

The school work here is so difficult and consumes so much of the boys' time," Grant continued, "that most of them get little time to devote to interests other than their books."

Swimming Being Revived.

Grant, who coaches football, called on William Neel, coach of the swimming team, and Elmer Kirchoff of East St. Louis, basketball coach, to discuss their particular departments and, while Kirchoff appeared pessimistic, Neel was just the opposite as he reported the revival of swimming at the Miner institution.

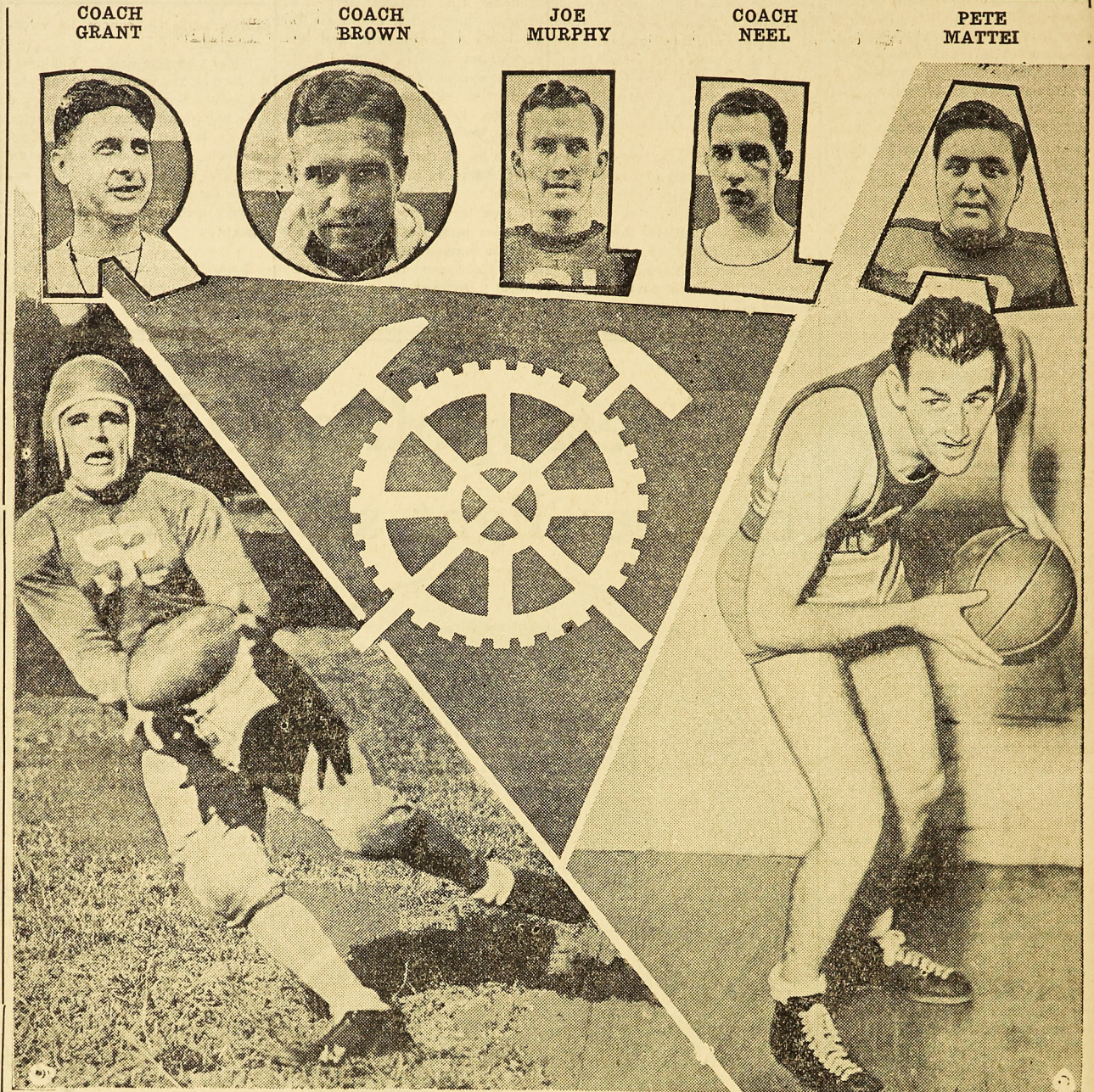
"We have about five meets in the process of formation," Neel said. "We'll probably meet Westminster and Western Military Academy twice and then, possibly, Washington University. Interest has picked up in swimming here, and we have several pretty good prospects working out daily. These include Joe Raskaskas, freshman from Paterson, N. J., Howard Katz of Rolla, and Jimmy Miller, formerly of Cleveland High, a backstroke star."

Neel branched off into tennis and stated that the new concrete tennis courts, recently constructed, should help develop this sport there.

"Our star golf player, Herman Pfeiffer, formerly of Central High," Neel said, "graduated last May after winning the Missouri Intercollegiate Athletic Association tournament."

It was then the basketball coach's turn to discuss his team which, of course, has been having its ups and downs—mostly downs—lately.

"Under ordinary circumstances," the soft-spoken Kirchoff began, "we'd have a pretty fair basketball club. By that I mean that we'd stack



Left, Joel Loveridge, former Kirkwood High athlete in action as a member of the Miners' football team. Right, DeWitt Timberman, freshman member of the

up fairly well against all opponents. But on the eve of the opening of our season I received word from the chairman of the Eligibility Committee of the M. I. A. A. that Paul Bush Ellis, a veteran player on whom I had been counting heavily, had been declared ineligible because he had participated in some minor sport down at the Cape Girardeau Teachers' College a few years ago, before entering the Missouri School of Mines."

Opposition Too Tough

Loss of an important cog such as Ellis, the coach pointed out, means a great deal in the Missouri Intercollegiate A. A., because rival clubs are exceptionally strong.

"You hit the nail on the head there," interrupted Athletic Director Grant. "I'd say, offhand, that we have about three teams in our M. I. A. A. this season that probably would hold their own, or even beat, the best teams in the Big Six Conference. These are Cape Girardeau Teachers, Maryville and Warrensburg. When you play those teams you're playing just about the best teams in the country in collegiate basketball."

So far, the Miners have won from Kirksville and Central Wesleyan, and have lost to Drury twice, St. Louis U., Springfield Teachers and Cape Girardeau Teachers.

"Most of the better teams in our conference," Kirchoff explained, "have tall players. One school, for instance, has a center measuring 6 feet 10 inches in height. Our squad is less than average in height. In fact, some of our boys are pretty small. Take the Tucker twins, Armin and Norman. They're only 5 feet 5 inches tall, but are pretty fair ball handlers."

The coach bemoaned the fact that he was planning to "try something different" this year when he elected triple captains. They were to be Ellis, Bob Lange of Mexico, Mo., and Bill Busch, former Roosevelt High School player of St. Louis. But the disqualification of Ellis meant that the Miners have been forced to get along with mere co-captains this season.

At this point, Basil Compton, former St. Louis high school youth and now a student publicity director, broke in to point out that the Miners have a dozen intramural basketball teams playing a regular schedule.

"These teams represent fraternities, different departments of the school and various organizations," he said. "In this way, nearly all of the boys of the school are given an opportunity to play basketball if they care to."

"Football is probably our most popular sport," the athletic director

said. "That is, there probably is more interest in football among the student body than any other athletic activity. We used to be a member of the Missouri College A. U., but when Westminster and Drury discontinued football a few seasons ago we decided to join the Missouri Intercollegiate Athletic Association, as our school happens to be a state school, and we fit in there perfectly."

Grant said that the 1936 football team "looked good, but lacked experience."

"Almost" Beat Kirksville

"Why, with seven freshmen in our starting lineup," he pointed out, "our team lost by only one point to the powerful Kirksville Teachers. And you know the kind of a team Kirksville had!"

To illustrate the distances youths had come to attend the Missouri School of Mines, Grant mentioned several members of his football squad and their residences as follows: John Kirwan, former member of the New York University football team; Malcolm Flanary of Claremore, Okla., formerly a member of the Plebes football team at West Point, N.; Capt. Frank Appleyard, Chicago; Joe Spafford Fort Worth, Tex.; Otis Taylor, Herrin, Ill.; Ivan Curtis, Oblong, Ill., formerly of Illinois University, and Lawrence Middagh of Bridgeport, Illinois.

Right on the Job!
Compton, probably the most efficient publicity director found on the job at any college in the St. Louis district in years, began to pile up data on the 1936 football team. He took down an old picture off one of the walls and remarked: "There was a team for you."

It was the Miner team of 1914, the squad that whipped Missouri, Kansas Miners, Washington, Arkansas, Drury, Pittsburg Normal, Kirksville, and St. Louis University, without allowing the opposition to score a point. Names printed under the pictures of individual players were: Pitts Bland, Hobbs Houston, Buck Mountjoy, Buck Freeman, Kiskaden, Long, Copley, Miller, Wilson, Kline, Askeer, McCartney, Brandenberger, Inlay and Coach Kelly.

"We students," Compton pointed out, "insist that our school be known not as 'Rolla', but as the 'Missouri School of Mines.' Rolla is the name of this city, wherein the school is located. People who refer to our school as 'Rolla' should call Missouri University 'Columbia' because it's located at Columbia, Mo."

"We take great pride in Jackling Gym and Jackling Field, where our indoor and outdoor athletic contests are held. You see, they are named

Continued on back page

Miners Lose To Warrensburg Mules

Last Friday night when the Miners tied into the Warrensburg Teachers cage squad the score might just as well have read Miners 20-Troutwine 28 instead of the actual 53-20 for the Mule pivot man was just too big for the Miner quintet to cope with and the whole Mule team was much on the same order as to size.

Although the score would seem to indicate otherwise, the Miner team, except for a few wild spells, turned in one of their best performances of the season but their lack of height was too much of a handicap. The principal thing that kept the Miners in the game was their attempts from mid-court during both halves. During the first half Bill Busch scored six points from near the center stripe while during the second half Herb Kamper duplicated his performance. Their attempts at work close in were usually hampered considerably.

Fred Troutwine a Chicago product with his twenty-eight points made on twelve field goals and four free throws was the high point man while his team mate Keth, another lad from the windy city, was second with four field goals and two charity tosses for a total of ten points.

Kamper and Busch tied for Miner high point honors, each with a total of six points.

As a whole the game was like most one sided contests, rather colorless, however at times quite a bit of action developed as both teams moved down the floor working toward setups.

M.S.M.

A skunk which had made its home in a drain pipe of Fiske hall on the campus of Wichita University vigorously aired its protest at being forcibly ejected. The janitor rejoices that the drain-pipe is on the outside of the building.

MARYVILLE TO APPEAR ON THE LOCAL COURT

Friday night the Miners will play host to another one of those "wonder" teams the Maryville Bearcats putting in their first appearance of the season.

The Bearcats feature another one of those "up-in-the-air" boys only he tops the Warrensburg ace, Fred Troutwine, by 3 inches. He is Ike Howell, 6 foot 10 inches tall, from Georgia.

M.S.M.

Juniors Hang On To Intramural Lead

Rolling up an unbroken string of five victories, the Junior Independents have maintained their hold on the top of the Intramural heap. The Sophomore Independents and the Triangles are right behind with a count of 4 and 1, and 3 and 1 respectively.

This is the rating to date:

	Won	Lost	Pct
Junior Independents	5	0	1.000
Triangle	3	1	.750
Sophomore Ind.	4	1	.800
Lambda Chi	3	2	.600
Sigma Pi	3	2	.600
Freshmen Ind.	2	2	.500
Sigma Nu	2	2	.500
Senior Ind.	2	2	.500
Pi Kappa Alpha	2	3	.400
Lambda Tau	1	3	.250
Kappa Sigma	0	4	.000
Theta Kappa Phi	0	5	.000

The Sigma Nu's opened up the week and were surprised by a much improved Senior team and went down for the count of 21-16.

Senior Independents-Brown 7; Barclay, 6; Grafft, 3; McClutcheon, 2; Bohenek, 2; Wilkey, 1; Logan, 0. Sigma Nu-Larsh, 6; Ward, 4; Rouk, 4; Folsom, 2; Smith, 0; McCrae, 0; Hoffman, 0.

Theta Kappa Phi went down for the fifth straight, taking it from Lambda Tau to the tune of 13-9.

Lambda Tau-Glozer, 9; Baumann, 3; McClanahan, 1; Wonn, 0; Harris, 0; Sheppard, 0.

Theta Kappa Phi-Elliott, 4; Scheer, 3; Koziatek, 2; Shaller, 0; Mattei, 0; McLaughlin, 0; Cardetti, 0; Shifter, 0.

Kappa Sigma was the next to get the gun, loosing to Sigma Pi by the score of 23 to 16 for their fourth

straight lose.

Sigma Pi-Tittel, 8; Karter, 6; Gardner, 5; Price, 2; Mussell, 1; Jarboe, 1; Raskaskas, 0; Ulak, 0; Slieter, 0; Settle, 0.

Kappa Sigma-Lewin, 6; Frame, 6; Weber, 2; Munson, 2; H. Heenecke, 0; O'Rourke, 0; Ruemmler, 0.

The Junior Independents continued their winning streak by taking over the Freshmen Independents 31 to 23.

Junior Independents - Castell, 7; Murphy, 6; Prange, 5; Ellis, 5; Kuhlmann, 4; Robertson, 4; Fernandez, 0. Freshmen Independents - Taylor, 6; Cunningham, 5; Axthelm, 5; Lieber, 4; Robey, 3; Roffmann, 0.

The Triangles and Pi Kappa Alpha had it out in an overtime struggle. The Triangles finally won by the score of 18 to 14.

Triangle-Middaugh, 8; Curtis, 5; Prough, 3; Volkmar, 1; Kiesler, 1; Reese, 0; Hartmann, 0; Dowling, 0.

Pi Kappa Alpha-Ridley, 5; Carr, 4; Gund, 3; VonDeventer, 2; Holman, 0; Dickinson, 0; Spafford, 0.

The Sophomore Independents walked off Lambda Chi to the tune of 30 to 15.

Sophomore Independents - Tuckett, 9; Mooney, 8; Pitts, 7; Berwick, 4; Underwood, 2.

Lambda Chi-Bentley, 6; Blish, 4; Brown, 3; Kaley, 2; Johnson, 0; Berger, 0; Mackey, 0; Beckman, 0; Shores, 0; Kurtz, 0.

Only five games are on the line for this week and are—

Senior Independents vs Theta Kappa Phi, Wednesday, Feb. 3, 7 p. m.

Kappa Sigma vs Lambda Tau, Wednesday, Feb. 3, 8 p. m.

Freshmen Independents vs Lambda Chi, Thursday, Feb. 4, 7 p. m.

Junior Independents vs Triangle, Thursday, Feb. 4, 8 p. m.

Sophomore Independents vs Pi Kappa Alpha, Friday, 5, 4:30 p. m.

Bob Prange (Junior Independents) and Middaugh (Triangle) are having a close race for top place honors, both being tied for first place with 39 points a piece. Tuckett (Sophomores) holds down third place with 37 points. Next follows Underwood (Sophomores) with 36 and Blish of Lambda Chi with 31. There are 17 who have scored better than 20 points.

M. S. M.

WRESTLING LESSONS CALLED OFF

The wrestling lessons announced in a bulletin last week are now discontinued by order of the board of directors Joe Eagle, a trainer in the art, started the wrestling course but was stopped after the first lesson. He planned to charge for his services. M. S. M. Engineers are still waiting for a chance to learn the manly art of grunt and groan.

season is over.

High point honors go to little Johnny Pickett of Westminster who turned in brilliant performances in the 100 yard breaststroke and in fancy diving to take first place in both events. With the experience gained and the weak points brought out, the Miner team is hard at work, in preparation for future meets, the dates of which will be announced later. Those of you who like a little change in the sport calander should come out and watch the team members go through the next meet. The more of you tha show a little interest the more are the chances of winning a meet.

The results of the recent meet are as follows:

40-YARD DASH—won by Beimdick, Westminster; Raskaskas, Miners, second; Compton, Westminster, third. Time—21.5.

100-YARD BREAST—won by Pickett, Westminster; Miller, Miners, second; Malone, Westminster, third. Time—1:18.9.

200-YARD FREE STYLE—won by Gibbons Miners; Linder, Westminster, second; Payne, Westminster, third. Time—2:32.0.

100-YARD BACK STROKE—won by McDonald, Westminster; Busse, Westminster, second; Heslet, Miners,

third. Time 1:19.5.

100-YARD DASH—won by Orwig, Westminster; Voigt, Westminster, second; Raskaskas, Miners, third. Time—1:04.7.

FANCY DIVING—won by Pickett, Westminster; McDonald, Westminster, second; Heslet, Miners, third.

120-YARD MEDLEY RELAY—won by Westminster (Busse, Pickett and McDonald). Time 1:16.9.

160-YARD RELAY—won by Westminster (Compton, Voigt, Orwig and Beimdick). Time 1:28.4.

M.S.M.

Seventy-five of the 272 members of the freshman class at LeFayette College are either sons or relatives of alumni of the college.

In The Judgment of Fuel Economy

CLEANLINESS should be considered; economy is important; convenience should play a part . . . but comfort . . . the comfort that only HEAT can bring . . . should be uppermost in your mind when you order winter fuel! Ziegler considers all these factors . . . and Ozark Supply Co. recommends only the finest of fuels!



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Fits Better and Wears LONGER

Standard Store

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SCOTT BLDG., 8TH & PINE

Miners Devote Time To Studies Instead of Athletics

Continued from page four

after a copper magnate—an old graduate of the school—who now is a multi-millionaire and who resides out on the Pacific Coast. Now and then he comes back to visit us, but we haven't seen him for a few years. He gave the athletic field to the Missouri School of Mines some twenty years ago and we haven't forgotten him for it."

Football Enters Picture

He then branched off to the football team, giving a brief resume of the past teams that have worn the silver and gold colors of the Miners.

"Back in 1933, our team beat the University of Arkansas, 20-19," he pointed out. "Now Arkansas is generally recognized as 'tops' when it comes to football. We may book Tulsa or some Oklahoma team to fill in with our five conference games. Yes, we're liable to go places in football next season."

Grant, believing it was time to give a few pointers about his own department, relieved Compton of further explanations and went on to discuss the Miners' football situation.

Other members of the grid squad who came in for a round of praise were: Joe Murphy, former University City High star; Joel Loveridge, former Kirkwood High halfback, and Pete Mattei, former Soldan High youth.

"Our people here in Rolla," Grant continued, "boost our teams and give us their moral support all the time. That is one reason why I'd like to be able to give them teams ranking with the best of them in all sports."

The "Good Old Days"

"Whenever we discuss football," Compton broke in "our Rolla people tell us about the 'good old days' when the Missouri School of Mines had one of the greatest teams in the country. Those really must have been the good old days."

With that, Coach Kirchoff, wearing his saddest expression, heaved a heavy sigh and announced: "Yes, those certainly must have been the good old days."

But in spite of the current gloomy outlooks for the Miners' sports, there are those among the faculty, student body and citizenry who actually live to see what tomorrow will bring. And when they began telling about the 185-pound halfback from a little Illinois town who has announced he's going to come to Rolla in the fall, and the great high school basketball star who also plans to become a Miner at the start of the September semester, the interview had to come to an end. Those stories of optimism simply couldn't dovetail with the tales of woe poured out by Athletic Director Grant and his assistants.

In fourteen years, Coach Grant's teams have won sixty-four games, lost thirty-nine, and tied six. In five years at the College of Emporia, at Emporia, Kansas, his team won the Kansas intercollegiate championship three times and tied once. Playing forty games, C. of E. won thirty-four games, tied one and lost but five.

At the School of Mines Grant's teams have won thirty games, tied five and lost thirty-four. During this period the Miners have scored exactly 1,000 points to their opponents' 758. Every season the Miners play at least two large university teams.

While a student at C. of E., Grant led the conference in scoring two years while playing at halfback. Three years he was chosen all-Kansas back. He also made all-conference forward in basketball for three years. In addition, he ran the gashes for the track team, often getting under 10 flat for the 100.

M.S.M.

You Know Them Too

By Mac

I'm taking leave of the usual story under the above caption this week to do a bit of 'gripping'.

You know that here in Rolla we are faced with unusual problems in our social affairs. Our stag "circle" has become an accepted part of every dance. The fellow with a date knows about how often he will be permitted to dance with his date—but he should have certain privileges don't you think? I refer to a small courtesy on the part of the stag in stepping aside at the last dance. The "last dance" with your date is a tradition. This may seem a small item, but it often leaves a lasting mark, termed 'crude'.

It is an old, old idea about the 'roughness and toughness' of the engineer. Even we students, at times, become influenced into believing this trash—even to the extent that we display rank crudeness, attempting to display our toughness. It is much easier to be gentlemen. That is what we should try putting before the public—let them know an engineer is a gentleman, not a rough and tough "bird."

Training begins at home. Think it over.

PROGRAM

ROLLAMO THEATRE

Saturday and Sunday Matinees
1:30 and 3:30 p. m.

Wednesday, Feb. 3

Matinee and Night—1 Day Only
Big Stage Show

"The Emerson Mountaineers"
You have heard them on the radio, seen them in motion pictures on our screen

Now! See and Hear Them in
Person on Our Stage

and on our screen
Jack Haley & Betty Furness in

"MR. CINDERELLA"

Plus Short Subjects

Matinee 2:30, Admission 10c and 25c
Night 7:00 and 9, Adm. 10c and 35c

Thursday and Friday, Feb. 4 & 5

Bing Crosby and Madge Evans in

"PENNIES FROM HEAVEN"

Plus "The Oily Bird", "Lucky Spills"

Picture News

Saturday, Feb 6, Matinee & Nite

DOUBLE FEATURE PROGRAM

James Dunn and Jean Rogers in

"MYSTERIOUS CROSSING"

Bob Allen in

"RANGER COURAGE"

Plus Cartoon "Little Cheeser"
Chapter 9 "Phantom Rider"

Sunday and Monday, Feb. 7 & 8

BORN TO DANCE

starring

ELEANOR POWELL
with JAMES STEWART
VIRGINIA BRUCE



Tuesday, February 9th

George Arliss in

"EAST MEETS WEST"

Plus "Rush Hour Rhapsody" and
Spotlight "Polo"

Coming—"Camille"

"Rainbow on The River"

"Garden of Allah"

INTER - FRATERNITY COUNCIL HOLDS DANCE

The Greek letter men on the campus entertained the faculty and students of the school last Friday night with an informal dance held in Jackling Gymnasium under the auspices of the Inter-fraternity Council. There was no admission.

Approximately one hundred couples swayed to-and-fro under the melodic spell of the Varsity Orchestra, which was in excellent form, while seventy-five stags made the evening interesting for the girls by cutting in continuously.

The dance was held after the basketball game, the pledges of the several fraternities preparing the gym for the affair.

One year older

One year wiser

..enjoy Chesterfields for the good things smoking can give you