



06 Nov 1946

The Missouri Miner, November 06, 1946

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EDITORIAL PAGE

Welcome Alumni

Student Hurt

Cheers For Cheer Leaders

THE MISSOURI MINER

Missouri School of Mines & Metallurgy

HOMEcoming

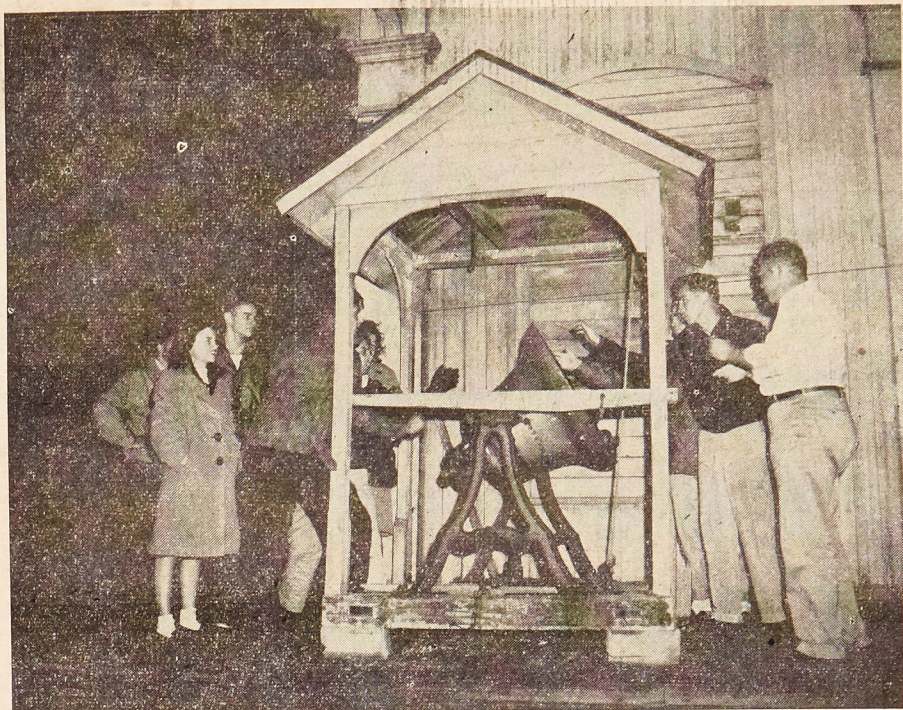
EDITION

VOLUME 33

ROLLA, MO., WEDNESDAY, NOVEMBER 6, 1946

NUMBER 7

The Traditional Bell Of M. S. M.



The traditional ringing of the victory bell. This snapshot was taken after the Miner's first football victory after the war. Since that time provisions have been so that the bell can be rung from the interior of the Rolla building which prevents the danger of falling from the roof where the bell tollers above rang it. Among those pictured above are: Mrs. Gene Coulter and husband, Gene, Kermit Rasmussen, Sparky Watts and his spouse, Ollie Kortjohn, and Bill Break.

Allis Chalmers Engineer To Speak

The Staff Metallurgical Engineer of Allis Chalmers Mfg. Co., Mr. Muir L. Frey will address an open group this Friday night, Nov. 8 at 8:00 p. m. in room 103 of the old Chemistry building by arrangement of the A. S. M. Muir's speech is to be one of the regularly scheduled events of the School's 75th Anniversary celebrations.

Mr. Frey was graduated from M. S. M. in 1923. In 1925 he received his master of science degree from M. S. M. Mr. Frey has had experience with John Deere Tractor Co. and Republic Steel located in Detroit. For some time he was with the Aviation Division of Packard Motors, and did heat treating of Rolls-Royce Engines. "Since no other big events are scheduled for this coming Friday evening, Cliff Dameron, a prominent member of A. S. M., estimated a large crowd for the meeting to hear Mr. Frey's comments. Since room 103 of the Old Chemistry building will only accommodate a portion of the student body, Dameron advised it would be best to come to the meeting early to obtain a seat.

Several Men Are Added To Vets Office Staff

A recent addition to the Veterans Administration is an Assistant Training Officer, to round out the Center's badly overworked staff. This post is filled by Mr. Dewey C. Hickman, recently Supt. of Newburg's Public Schools, who came here a few weeks ago. Mr. Hickman is a graduate of North-east State College and received a M. A. degree from the University of Missouri.

Another recent addition to the VGC staff is Mr. James R. Pollard, who occupies the post of vocational Appraiser. Mr. Pollard is employed by the school, but works in conjunction with the Guidance Center in an advisory capacity. His duties consist mainly of rendering guidance and counsel to the Veteran who is having trouble becoming adjusted to school life and school problems. In this work, Mr. Pollard is well experienced, having performed this type of duty for a number of years in the Army. He will receive his M. A. degree in Secondary Education and Guidance from the University of Missouri sometime in the near future and will take over the job formerly held by Prof. S. L. Lloyd.

The expanding ranks of the V. G. C. also include new clerical help; namely Mrs. Marjorie B. Ellis who started to work Nov. 1. Mrs. Ellis is badly needed to help and the vast number of applications to be processed.

The size and importance of the Guidance Center, which is a direct link between the school and the St. Louis Regional Office of the Veterans Administration is reflected in the recent move to bigger and better quarters. The V. G. C. now occupies the rooms in Parker Hall basement formerly known as the Military Rooms.

Lecturer From Weston To Speak At AIEE Meeting

There will be a representative of the Weston Instrument Company to give a lecture and demonstration of "Electrical Indicating Instruments" at Parker Hall, Monday Nov. 18, 1946 at 7:30 P. M.

This lecture will be purely technical, presented in a popular or semi-technical manner so as to be at the general level of a technical organization. In no sense will the lecture be a sales talk. The subject matter will not be confined to Weston instruments, although the parts shown, the background mentioned and the general practices described will be those of the Weston Organization.

The material covered will be of value to every prospective engineer who can expect to make some use of electrical/indicating instruments. In particular is the lecture recommended for physics and electrical engineering students. The lecture and demonstration will be sponsored by the A. I. E. E.

A. S. M. E. Men Make Copy Of Emblem

Members of the MSM student chapter of the American Society of Mechanical Engineers have made a wooden replica of the society emblem. This insignia is in blue and gold and is approximately 2 ft. in diameter. It will be prominently displayed in the future in front of Mechanical Hall on days that the A. S. M. E. chapter is having a meeting.

Pep Meeting

Friday Nite

7:30

On

Hospital Lot

First Editor Of Miner To Speak At Banquet In His Honor Tonight

Mr. Head, the first editor of the school paper, The MISSOURI MINER, will be the main speaker at a banquet held tonight at 6:30, given in his honor. Head arrived in Rolla Monday night to spend a week here during the 75th Anniversary celebration.

Not only was Head the first editor of the MINER, he was also

State Meet Of Acad. Of Science Held Here Friday

In conjunction with the Seventy-Fifth Anniversary Celebration of the School of Mines and Metallurgy, the Twelfth Annual Meeting of the Missouri Academy of Science was held in Rolla, October 31 to November 2.

Officers in charge of the meeting were Dr. Charles H. Philpott, Dean of Harris Teachers College, St. Louis, Missouri, president; Dr. William C. Doyle, S. J., Rockhurst College, Kansas City, Missouri, vice president; R. T. Dufford, Missouri Valley College, Marshall, Missouri, secretary-treasurer.

Newly elected officers of the academy dedicated to the advancement of science in Missouri are the Rev. William C. Doyle, S. J., president; Dr. Edward Clark, Missouri State Geologist, vice president; and R. T. Dufford, secretary-treasurer.

In the first general session sponsored by the Rolla Chapter Society of Igne X, and the academy, Dr. G. E. Ziegler, executive scientist of the Research Institute, Kansas City, Missouri, presented an address on "Basic Research Opens Industrial Frontiers." Dr. Ziegler is especially known for supervising the development of the Magnetic Wire Sound Recorder at Armour Research Foundation and his direction of extensive programs of war research and war production developments.

Other prominent addresses to the science group included the following:

"Effect of Weather on Electric Power Industry." (Illustrated with motion pictures of 1943 Osage River Flood); Mr. Oliver Luft, Chief Load Dispatcher, Union Electric Company, St. Louis, Missouri.

"Thunderstorms." With motion picture illustrations; Dean Niels C. Beck, Parks College of Aeronaautical Technology of St. Louis University.

"New Plants for Use and New Uses for Old Plants." Illustrated with Kodachrome Slides; Frank C. Pellet, Field Editor, American Bee Journal, Hamilton, Ill.

Sectional Meetings Various sectional meetings of the Missouri Academy of Science held on November 1 and 2 were as follows:

Agriculture — Chairman, Prof. Continued To Page 4

Homecoming Ball And Ball Game To Conclude 75th Anniversary Celebration This Saturday

By James J. Jelinek

Breathes there the man with soul so dead . . . Whose heart hath ne'er within him burn'd At Home his footsteps he hath turn'd . . . ?

Sir Walter Scott
Alumni of the Missouri School of Mines and Metallurgy will return to their alma mater on November 9 in a Homecoming celebration which will be a gala climax to the school's seventy-fifth anniversary celebration. Highlights of the event will be a Dinner-Smoker for alumni, the Homecoming Ball, a special Anniversary Convocation, and a football game between the Miners and Pittsburgh Teachers College of Kansas.

Including an address by a prominent alumnus along with talks by Dr. Curtis L. Wilson, Dean, and Mr. F. C. Schneberger, President of the Missouri School of Mines and Metallurgy Alumni Association, the special Anniversary Convocation will be held in the Auditorium of Parker Hall at 11 a. m., November 9.

According to Assistant Dean Rex Z. Williams, chairman of the Homecoming Committee, a colorful parade through the main streets of Rolla will be staged before the Miner-Pittsburgh football game at 2:30 p. m. Students and alumni will be led in their march by the Missouri School of Mines and Metallurgy Military Band.

Following the football game, the Alumni Association will hold its annual, stag dinner-smoker meeting. It is expected that progress reports of the alumni association will be presented at this meeting and that nominations for officers of the association will be made. While alumni are attending the stag dinner their wives and guests will also hold a dinner meeting. They will meet at the home of Mrs. Carl Eyberg, 1607 Pine Street, at 6:30 and go from there to the Houston House at Newberg.

Last of the day's festivities will be the Homecoming Ball in Jackling Gymnasium sponsored by the St. Pat's Board. Proceeds will go to the St. Pat's Board to be used for its famed annual St. Pat's Celebration. With many alumni planning to visit their alma mater for the first time during the war years, and with an all-time record of 2100 students on the M. S. M. Campus, a very large attendance at the Ball is expected.

Alumni and visitors will register in Parker Hall at 11 a. m. November 8, after which tours of the campus and Good Fellowship meetings will be conducted. On the evening preceding Homecoming, informal dances and parties will be held at fraternities, clubs, and private homes.

The program of events for Homecoming is as follows:
8 November, 11 a. m. — Registration in Parker Hall. Inspection of campus. Good Fellowship meetings.

8 November, evening — Informal dances and parties at fraternities, clubs, and private homes.

9 November, 8 to 11 a. m. — Registration continued. Inspection of campus continued.

9 November, 11 a. m. — Special Homecoming Convocation. Address by prominent alumnus. Short talks by Dean Curtis L. Wilson and F. C. Schneberger.

9 November, 12:15 p. m. — Luncheon with fraternities, clubs, and organizations.

9 November, 2 p. m. — Homecoming parade through town. led by Military Band.

9 November, 2:30 p. m. — Football game; Missouri Miners vs. Pittsburgh (Kansas) Teachers College.

9 November, 6:30 p. m. — Annual, stag dinner-smoker for alumni. Dinner and program of entertainment for ladies of alumni.

9 November, 10 p. m. — Annual Homecoming Ball at Jackling Gymnasium.

Officials of the Missouri School of Mines Alumni Association in charge of arrangements for the Homecoming Celebration are Mr. Fred C. Schneberger, '25, President; Mr. Karl F. Hasselmann, '25, Vice-President. A Homecoming Committee consisting of M. S. M. faculty members who are working in liaison with the alumni association includes Assistant Dean Rex Z. Williams, chairman; Professor D. F. Walsh, Mr. R. F. Davidson, and Mr. J. F. Rushing.

The mind is always inventing logic for the whims of the will.

Springer Elected Prexy Of State Acad. Of Science

At the business meeting of the College Section of the Missouri Academy of Science, Fred Springer of Missouri School of Mines was elected President of the section for the coming year. The other officers are Mary Burke-Graffney of Maryville College, Vice-President and Coy Elizabeth Payne of Lindenwood College, "Secretary Treasurer.

Fred Springer was the Secretary-Treasurer for the past year and did most of the planning for the meeting of the College Section which was held here in Rolla last Friday and Saturday in conjunction with the regular meeting of the Missouri Academy of Science. It was decided that the next meeting of the section will be held at the time and place of the next regular session of the academy.

At the meetings of the College Section, many schools were represented, each school presenting at least one scientific paper or report. St. Louis University gave three reports on various aspects of chemistry "Some Newer Aspects of Fluorine Chemistry", "The Versatile Compound, Para-aminobenzoic Acid", and "Hydrocarbons Made Over". A report on some chemical and biological tests made on Vitamin D was presented by three students of Pontbonne College. Harris Teachers College was represented by talks on "Cancer" and "Beavers". In the field of Chemistry, Maryville College gave a talk on "Oxidation-Reduction Reactions", and the results of some experiments gave way to a report on "Difficulties in Beginning Biological Chemistry Experiments" by a student of Lindenwood College.

The engineering profession was represented by two reports by students of Missouri School of Mines. Clarence Lambeth talked about "Ceramics Past, Present, and Future", while "Principles of the Manufacture of Iron and Steel" was given by Stanley Hrach.

Banquet

The College Section joined with the other sections in a banquet at the Parish House Friday evening. The President of the Missouri Academy of Science, Dr. Charles Philpott gave a short talk on the history of the academy and introduced the new officers along with the officers who carried the organization through the war years. Dean Wilson was the opening speaker and he gave a short welcoming address to the academy. Special tribute was paid by the adult society to the College Section and its officers, as it was the only section to keep its strength and to hold yearly meetings during the three years that the Missouri Academy of Science as a whole was dormant. The officers of the College who guided the section in the office of President. Jeannine Doyle of Harris Teachers College was Vice-President and Fred Springer of M. S. M. was Secretary-Treasurer.

Following the banquet, everyone adjourned to the auditorium where a report on the "Romance of the Alaska Sealskin" was given by Mr. F. W. Trampe of Fouke Fur Company in St. Louis. He illustrated his talk by technicolor movies and a display of sealskins in various stages of processing.

Notice To All Vets

The veterans in training at the Missouri School of Mines under Public Laws 346 and 26 who have not received subsistence pay for the months of September and October by November 5, are requested to report to the Guidance Center, Room 10, Parker Hall on November 6, some time between the hours of 8:00 A. M. and 5:00 P. M. The VA personnel will be available at this time to assist the veterans in getting their cases in order so that they may receive subsistence pay.

Any veteran who has any back pay other than for the months mentioned above should also report to the Guidance Center on November 6.

Hanley And Gill Recieve Honorary Degrees At Convocation Today

Paramount among the events making up the Seventy-Fifth Anniversary Celebration of the Missouri School of Mines and Metallurgy, the Academic Convocation held at Parker Hall today was highlighted by an address by Eugene McAuliffe, Chairman of the Board, Union Pacific Coal Company and the awarding of honorary degrees to James Presley Gill, widely known metallurgist, and Herbert Russell Hanley, Professor Emeritus of Metallurgy at the Missouri School of Mines and Metallurgy.

Dr. Curtis L. Wilson, Dean introduced Dr. Frederick A. Middlebush, President of the University of Missouri, who presided and awarded the honorary degrees.

Attending the convocation were the Board of Curators of the University of Missouri and Dr. L. E. Young, director at MSM from 1907 to 1913. Also in attendance were alumni, delegates from other educational institutions in Missouri, faculty members and their wives, townspeople of Rolla, and representatives of student organizations at the Missouri School of

Mines and Metallurgy.

McAuliffe's Principle Speaker

In his address on "The Engineer's Contribution to Society and the World," McAuliffe paid tribute to the faculty and graduates of the Missouri School of Mines for their "great contributions to the engineering world," briefly reviewing the professional accomplishments of Dr. D. C. Jackling, metallurgical engineer and executive; Dr. L. E. Young, educator; Dr. John A. Garcia, mining executive; Herbert R. Hanley, professor and metallurgical engineer; Dr. H. A. Beuhler, geologist; and James L. Head, chairman of the American Institute of Mining Engineers.

In offering a word of professional guidance to students in the miners, McAuliffe stated that "Too many men, lay and professional, think of engineering as having to do alone with time, material, and forces, three dimensional. We have been a race of pioneers — explorers, appropriators, and exploiters. Virgin soil, forests, and mineral

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Rettaliata Tells Past And Future Of Jet Power

Many M. S. M. students and visitors to the Annual meeting of the Missouri Academy of Science were privileged on Fri. Nov. 1, to hear an address on Gas Turbines and Jet Propelled Aircraft by Dr. J. T. Rettaliata, Director of the Mechanical Engineering Dept. at the Illinois Institute of Technology. Dr. Rettaliata was formerly the Manager of the Research and Gas Turbine Development Div. of Allis-Chalmers, and is at present a consulting engineer for that company. He received his B. S. from Johns Hopkins University in 1922 and received a doctor's degree in Mechanical Engineering from that institution in 1926. During the war Dr. Rettaliata was on several missions overseas for the government; he has recently returned from a mission to Germany investigating enemy technical developments.

History of Jet-Propulsion

Dr. Rettaliata stated that jet propulsion is actually a very old principle, merely a fulfillment of Newton's third law of motion. The present development of this principle is due to the development of the gas turbine, which itself was known in ancient times, but whose development was helped until recent times for lack of materials capable of withstanding the tremendous temperatures involved, and for lack of sufficiently efficient compressors. A gas turbine was patented in England in 1791, but was never built. One was actually constructed in Germany in 1872, but was not much of a success, as it failed to work. The first gas turbine to actually run was built by the French at the beginning of this century. This turbine, however, had a thermal efficiency of only 2%.

Jet Propulsion Today

The jet planes, heard of so much about today, are propelled by a motor which consists of an air intake, a compressor, a combustion chamber, in which fuel (generally kerosene) is burned, a gas turbine, and an outlet duct in series. The turbine utilizes part of the energy of the hot gases to operate the compressor, and the gases leaving the outlet duct at a higher velocity than that of the intake air provide the thrust to propel the plane.

The jet plane has a constant thrust, in contrast to the variable thrust of conventional planes. This makes the jet plane have a lower thrust efficiency for lower speeds, and at take off, requiring a longer runway. However, above 300 Miles per hour, the thrust efficiency of the jet plane increases while that of the conventional plane drops off rapidly.

A modification of the jet engine which was discussed by Dr. Rettaliata is a combination of the jet and conventional engine, in which the gas turbine drives a propeller

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Parents Inspect School's Labs. On Engineers' Day

In opening their laboratories and classrooms for inspection, students and faculty demonstrated a few of the many phases of engineering education now being carried on at the Missouri School of Mines and Metallurgy. Among the exhibits were those in metallurgical engineering and mineral dressing illustrating the production of metals, and their extraction from ores. The refining, alloying, shaping, and heat-treating of metals were also demonstrated.

E. E. Exhibits

Exhibits in the field of electrical engineering showed the fundamental principles underlying the fields of communication, industrial electronics, electrical machinery, and electric power service. These included motorol equipment showing electronic control for direct current motors, high frequency electric heating equipment, synchro-trol equipment for producing or controlling motion from a distance, and equipment showing frequency modulation.

Physics Experiments

In the field of physics, exhibits included experiments in the conduction of electricity through gases, radio-activity, spectroscopic equipment and photo-electric effect. In connection with these experiments, graphic charts were shown to depict the application of the results of experiments in atomic physics to the production of the atomic bomb. The use of the Geiger-Mueller counter as a detector of atomic radiations was also demonstrated.

Geology Dept. Exhibits X Ray

Geological exhibits included those of X-ray diffraction equipment used for analysis of minerals and magneto-meters and electrical apparatus used in geophysical prospecting for minerals. Fossils representing like of the past ages, and topographic and geologic maps made and used by geologists in the search for minerals were shown.

Chem And Drawing Labs Opened

Laboratories for work in general chemistry, qualitative analysis, organic chemistry, quantitative analysis, unit operations, and physical chemistry were open for inspection by parents and visitors. Also on display were exhibits in engineering drawing, descriptive geometry, machine drawing, scientific sketching, freehand lettering, machine drawing, scientific sketching, freehand lettering, drawings of maps and structures, architectural drawing and city planning.

Surveying Exhibits by Civils

Exhibits of equipment used in various branches of civil engineering included surveying and Geology, with its problems of location and mapping of engineering enterprises, and divisions of land; Transportation Engineering, including the building of railways, highways, waterways, docks and tunnels;

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Governor's Message

I am glad to send this message of greetings to the Convocation marking the 75th Anniversary of the starting of classes at the School of Mines and Metallurgy, University of Missouri, and to express my sincere good wishes for its auspicious occasion.

During the past 75 years the School of Mines and Metallurgy has exerted a wholesome influence upon the lives of thousands of students with outstanding and that would confer results to the State of Missouri, the nation, and the world. The graduates of this institution have gone into all parts of the world uncovering and exploring the mineral deposits and performing the numerous engineering achievements that have brought great renown. Outstanding among these have been made by such men as D. C. Jackson in Mining Metallurgy; A. P. Green in Ceramic Industry; Enock R. Les in Civil Engineering; and J. Kelly in the field of Communications and Electrical Engineering. All of these men have attained world-wide fame in their respective fields.

From these educational accomplishments, the research done on the campus of this

school has returned to the State many times what the school has cost the taxpayers. Eminent and qualified authorities have estimated that innovations and improvements in the mining of lead ores, originating on this campus, have resulted in additional returns to Missouri operators in the Joplin district alone of several million dollars during the past 25 years. The current enrollment of 2100 students is concrete evidence of the demand for engineering training of the type which this division of the University has to offer and assures the same growth and development in the years to come.

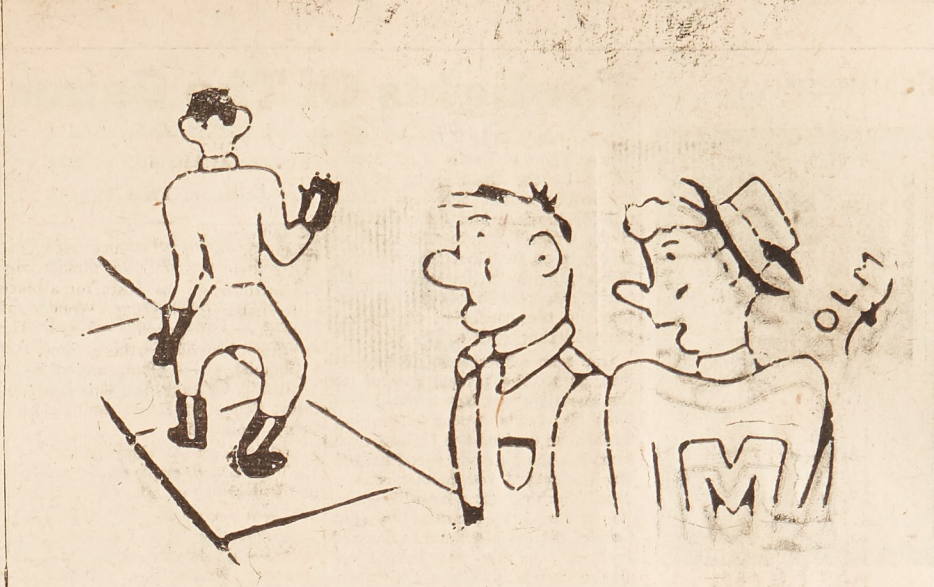
As Governor of Missouri, I can say that the State is proud of our School of Mines and the eminent position which the school occupies in its field. I extend my greetings and best wishes to my good friend, Senator Allen McReynolds, and the other members of the Board of Curators, who so ably administer the affairs of the institution. To the faculty and staff, and to the alumni and all other friends of the School, I extend congratulations upon the 75th Anniversary of their School and Alma Mater.

I am confident that your school will continue to reflect great credit upon our State.

Phil M. Donnelly

Telegraph Messenger: What was the most wonderful experience you've ever had?

Another T. M.: The night I took a telegram to a beautiful blonde saying her husband wouldn't be home until the next day.



Yep! Mac wears those rubber gloves and boots all the time now since he heard how many electricals there are here.

CONVOCAION

Continued From Page 1

deposits were our heritage, to seize and despoil, and much of our work reflects little credit on those to whom the task fell. We have translated our great natural reservoirs of wealth into comforts and luxuries; waste, waste, and more waste. Therein lies a fertile field, the reduction of waste, not alone of material, but of human force. There is too much tradition in the mining industry, too little analysis. We are, too many times, so intent on following past practices that we rarely pause to think out a better way. That is the province of the true engineer, to apply the cumulative knowledge, skill and technique of the profession to the problems of the day."

Dr. McAuliffe Received Degree A. M. S. M.

Dr. McAuliffe, known throughout the world as the founder of modern-day mining codes, received a Doctor of Engineering Degree, Honoris Causa, from the School of Mines and Metallurgy, University of Missouri in 1927. In addition to being Chairman of the Executive Board of the Union Pacific Coal Company, he is also president of the Washington Union Coal Company, Southern Wyoming Utilities Company, and Union Pacific Water Company.

Recognized as an eminent authority on fuel, coal traffic, and coal mine development and operation, Dr. McAuliffe, having served as a consultant to the late Franklin D. Roosevelt on labor problems, is also widely known for his contributions to the field of labor relations. It was Dr. McAuliffe who directed the establishment of the world-famous social colony in Rock Springs, Wyoming, the seat of the coal mining operations for the Union Pacific Coal Company.

Although he was born in Maidstone, Kent, England, McAuliffe was educated in private and public schools of Toronto, Canada; Fargo, North Dakota; and Moorhead, Minnesota. From 1886 to 1903 he was an engineer in the motive power departments of various railways of the United States and Mexico, after which he became Fuel Agent for the Frisco Lines. In 1903 he became General Coal Agent for the Rock Island Lines as well as president of the Brazil Coal Company. After returning to the Frisco Lines as General Coal Agent in 1910, a position which he held for seven years, he was then made president of the Union Colliery Company. In 1923 he was made president of the Union Pacific Coal Company, a position he has held to the present.

Dr. McAuliffe served as Manager of the Fuel Conservation Section of the United States Railroad Administration and at various times since 1929 has served as director, vice president, and president of the American Institute of Mining and Metallurgical Engineering.

neers. He is a member of the American Mining Congress and has written several books in the field of mining engineering, the most outstanding of these being RAILWAY FUEL and the ROMANCE AND TRAGEDY OF COAL. At the present time he is sponsoring the Employees' Magazine, a monthly periodical devoted to the interest of the coal miner and his family.

Emergency Loan Fund Is Set Up By Campus Vets

The members present at the last meeting of the Campus Veterans Association last Wednesday night, October 30th, voted unanimously in favor of creating a five hundred dollar emergency loan fund for veteran students. The idea was suggested by Jerry Berry at the first meeting of the organization this semester, and it was quickly approved and sanctioned by the head office. The loan was created to help veterans whose monthly subsistence checks were slow in arriving, and to tide them over as long as the emergency lasted.

Chester Pomeroy's committee took over the suggestion, investigated the loan funds now existing at the school, and wrote up a draft outlining the purpose and conditions of the CVA loan fund. The different parts of the draft were voted upon, and finally the entire bill was put to vote. The fund is to be directed by the faculty board which handles all student loans, and is available to all veteran students whether they are members of the Association or not. The only requirement necessary is the veterans own need for money during an emergency. Mr. Pomeroy's committee saw to it that the loan would not be a temporary affair, by including a provision in the bill to the effect that in future years the loan would be available to all sons and daughters of veterans of World War II.

This beneficial fund was created from a suggestion by one individual with a constructive idea. It is to collect more such ideas and suggestions that the Campus Veterans have placed suggestion boxes at various points about the school. With a membership now slightly totaling more than one half the students enrolled in the School of Mines, the Association feels itself large enough to tackle

any problem confronting the student body as a whole. Originally organized to promote "mutual helpfulness to school and community" the Association is ready to launch itself on a new project in the interest of easing problems confronted by living in a crowded community and attending a crowded school. Anyone having any constructive suggestions concerning the student body are urged to put them down on a slip of paper, drop them in the nearest suggestion box, whether he is a member of the organization or not. These suggestions and questions will each be discussed by the project committee and acted upon accordingly, and the best suggestion for each semester will receive a five dollar award, so be sure to accompany your suggestion by your full name.

PARENTS DAY

Continued From Page 1

Hydraulic Engineering, with its questions of water-power development, flood control, irrigation, and drainage; Sanitary Engineering, including water supply, sewage disposal, and public health; Structural Engineering, dealing with the design, construction, and maintenance of bridges, steel and concrete buildings, foundations; and Municipal Engineering which includes to a large extent a combination of these branches.

A materials testing laboratory with its test specimens and testing equipment were also made available for inspection. Demonstrations were conducted to show how some physical tests are made on engineering materials of construction. The photoelastic methods used in studying the stress dis-

WHAT WHERE & WHEN

WEDNESDAY, NOV. 6
Special 75th Anniversary Convocation — Auditorium — 10:30 a. m.
Freshman Class Meeting for Election of Officers — 103 Old Chem. Bldg. — 5:15 p. m.
Miner Staff (all), Banquet, 6:30 p. m., Pennant. Sign up in the office BEFORE NOON.
American Society of Mechanical Engineers Meet — 204 Mechanical Hall — 7 p. m.
St. Pats Board Meeting — 228 Met. Bldg. — 7 p. m.
Tau Beta Pi Meeting — 227 Met. Bldg. — 7:30 p. m.
Tau Kappa Epsilon Meeting — 104 Norwood Hall — 7:30 p. m.
THURSDAY, NOV. 7
Glee Club — 104 Norwood Hall — 7:30 p. m.
Society American Military Engineers Meeting — 228 Met. Bldg. — 7 p. m.
Reserve Officers Association Meeting — 103 Harris Hall — 7:30 p. m.
Alpha Chi Sigma smoker —

Chemical Engineering Bldg. — 7:30 p. m.
FRIDAY, NOV. 8
American Society for Metals Meeting — 103 Old Chem. Bldg. — 8 p. m.
SATURDAY, NOV. 9
Homecoming Convocation — Auditorium — morning.
Football Game — Miners vs. Pittsburg, Kansas State Teachers — Jackson Field — 2:15 p. m.
TUESDAY, NOV. 12
Band Practice — Auditorium — 7:15 p. m.

Farmer: You can't go wrong on this mare, sir. She's a sound, gentle, good worker and a fine saddle horse.
City Slicker: Is she tender?
Lazy Husband: I see there's talk of another strike.
Wife: Yes, and if you was 'arf a man you'd get a job an' be able to go on strike, too.
Doctor: Say "ah."
Patient: I didn't come here for an examination, I just want to pay my bill.
Doctor: "Ah-h-h."

THE WALK-UP SHOP

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Dresses by Marlene & Susan Shane, Jr.
Dresses — Blouses — Lingerie
For The Campus Wives
Phone 1156-W

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STEAKS — SHORT ORDERS — DELICIOUSLY PREPARED
Open Daily Except Monday 8 A. M. to 2 A. M.

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Earn good money working part-time outside your regular class hours. You must be experienced and capable of setting a fair amount of clean type per hour.

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Dealer in Watches
Hamilton — Elgin — Bulova
Gruen — Helbus — Westfield
Also Keep Sake Diamonds

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Representing
Travelers Insurance Co. of Hartford, Conn.

— Fire — Auto — Burglary
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Springfield Bears Bow To Miners 12-0

In a game played under adverse conditions, the Miners of M. S. M. splashed their way to a well deserved victory over the Springfield Bears. The field was considerably muddy from a previous three-day rain, and it continued to fall throughout the whole game.

The Miners seized two breaks and capitalized on them for their only two scores. Hazlett, Rolla's right end, grabbed a deflected forward pass out of the air and raced 64 yards to score the Miners' first touchdown midway in the first quarter. There only other score came after they had intercepted a pass on the Bears' 11 yard line, when Carafiol ripped through the defense of Springfield and traveled the last 11 yards for 6 more points.

The game was well played even with the poor playing conditions existing. Both teams did a great deal of kicking, with only one kick being blocked.

After McGath had kicked off to Springfield on their 15 yard line,

they tried a pass and two plays at the line and gained little or nothing. They kicked to the Miners and the ball rolled dead on the Miner 40. Two plays at the line, and then Hoehn kicked to the Bears' 20. The Bears picked up two quick first downs, bringing the ball to the Miner 36. Galzier of Springfield then tried to pass, but was badly rushed, and the ball was batted into the air, where Bazelett of the Miners caught it and scampered 64 yards to a touchdown. The try for the extra points was wide. The rest of the first quarter was a punting duel between Hoehn of the Miners and Kerin of the Bears, with Springfield in possession of the ball on their own 20 as the quarter closed. From this point the Bears made the longest sustained drive of the day.

With Clayton, Wright, and Crase doing the ball carrying, the Springfield moved down to the Miner 15, where a determined Miners team put on the brakes, and took the ball over on downs. The Miners kicked out of danger to the 45. Again Springfield moved down deep into Miner territory, but couldn't find the right combination to go over the goal line. Rolla then began to move. Fullop and Hoehn picked up a first down to their own 32. Kemper, Hoehn, and Bery collaborated to pick up another first and ten to the 42. Kemper then skirted end to the Bears' 48 for the third consecutive first down on the drive. Hoehn picked up nine on the next play as the half ended with the score reading: Miners 6 Springfield 0.

The third quarter resulted in a kicking battle, with most of the play being in the Bears' territory, their fumbles keeping them in hot water most of the time. As the third quarter came to an end, the Miners were in the possession of the ball on Springfield's 20 yard line. After they gave up the ball on downs, an exchange of kicks occurred, and Springfield had the ball on her 22 yard line. On a play similar to that which led to the Miners' first touchdown, another pass was intercepted. On the very first play, Carafiol bulled his way through the line and went over the goal line standing up. The rest of the game the Miners were satisfied to play defensive ball and maintain their hard-fought 12-0 lead.

The Springfield band was on hand and really put out a good

Massed Pulchritude



The campus co-eds pause for a moment to smile at the staff photographer, Jack Rother. This group represents about half of the total number of co-eds who have selected this engineering school for their training.

brand of music. Some high stepping by the drum majorettes helped along.

McGrath and Fulghum played a great defensive game in the line for the Miners. The whole line came in for its share of glory because Springfield passes were often rushed so quickly, their passes went haywire. The Miner line also blocked a punt.

The lineups were as follows:

Miners	Pos.	Bears
McGrath	LE	Mentis
Wood	LT	McCallister
Seabaugh	LG	Kerin
Stallman	C	Sigler
Fulghum	RG	Keeper
Leone	RT	Martin
Hazlett	RE	Morton
Kemper	QB	Blair
Fullop	LH	Wright
Hoehn	RH	Lore
Bery	FB	Crase

Score by quarters:

	1	2	3	4	S
Miners	6	0	0	6	12
Bears	0	0	0	0	0

SCORING: Miners — Hazlett, Carafiol (Sub. for Bery).

Substitutions: Miners — Meyer, Gammon, Stone, Pipkin, Heath, Gauereke, Schwartz, Shourd, Good, Stephens, Miller, Steele, Clark, Whitney, Bears — Neely, Glazier, Forsythe, Miller, Provance, Clayton, Howerton, Newberry, Simon, Joyce, Lewis, Hubbard, Davis, Fletcher.

JET ENGINES

Continued From Page 1

as well as the air compressor. Speeds of 1000 to 1500 M. P. H.

A new development which promises to increase the speed ceiling above that of the regular jet engine is the Aero-Thermodynamic Duct known as the Athodyn or Ramjet. This operates without any moving parts. Air comes in thru an intake, fuel is burned in this air in the duct and the hot gasses leave at higher velocity than that of the intake air. Use of the Ramjet makes possible speeds of 1000 to 1500 mph.

For still higher speeds rocket power will be utilized. In tests of the German V-2 rocket a speed of 3700 mph and an altitude of 6 miles were attained.

In addition to discussing the theory and history of jet propulsion, Dr. Rettaliata discussed some of the American, British and German jet planes that have been developed. One particularly sensational model that the Germans developed during the war was a rocket-powered, semi expendable plane, carrying 24 rocket missiles. This plane was used to break up allied bomber formations. It was fired into the middle of such a formation, appearing suddenly, the pilot fired his projectiles. This plane carried only sufficient fuel to sustain it in flight for two minutes, if used conservatively. After exhausting his fuel the pilot "bailled out" and the plane broke in two, the rear half, containing the rocket motor, descending by parachute for reuse.

During the question period, Dr. Rettaliata told of a submarine the Germans had developed, powered by the decomposition of hydrogen peroxide, which developed a speed of 24 knots underwater.

This years bathing suits are barely large enough to keep a girl from being tanned where she ought to be.

Lowlights Of The Game

"The Old Gray Grime, It's Worse Than It Useta Was" seemed to be the theme song of the swimming match between Rolla and Springfield last Saturday. At times it was hard to find twenty-five men on the field. However the Miners, with their underground traditions, miled their way to victory in the confusion of "What team is that guy on?"

One man who seemed to be certain as to the proper answer to the question was Roy Shourd, the East St. Louis sycraper. Playing Tackle, he decided the blob of mud carrying the ball had a red helmet on. Under the red helmet was a chin. Reaching out a ham-like paw, he fastened it securely to that barely discernible landmark, and continued on his way in the opposite direction. The stands rocked as the red helmet reversed direction in a short fast semicircle and sent up a greaser of water from the field. That was one of the few incidents the spectators were able to see.

The P. A. observer was having his troubles too. "Ball recovered by an unidentified Miner" is a sample of the usual intelligence he relayed from his vantage point in one of the barracks windows.

The big laugh was in the crowd. Fortified with copious amounts of school spirit from the Pop Kelly Friendly-Chemical Service, the M SM stands were packed with as drowned-looking a bunch of rooters as has been seen for a long time. Heard from many a vet was, "If anyone had told me two years ago that I'd sit in the rain all afternoon to watch a football game, I'd have called him a 4 & 4/5 liar."

The crowd stayed though, interested in the high-torque antics of Preacher Martin's quartette of yellow-sweated assistants almost as much as in the mud-blurred activity on the field. Those girls must have been nourished on India rubber since infancy. They put out more foot-pounds per second than any six men in the game.

So Springfield, the ancient enemy, is once more humbled. Her banner is trampled into the mud. Her glory is diminished. Task task, one for each touchdown.

"It's a bottle of hair tonic, dear. Oh, that's very nice of you, darling."

"Yes, I want you to give it to your secretary at the office. Her hair is coming out rather badly on your coat."

UPTOWN

TUES. WED. THU. FRI.
NOV. 5-6-7-8

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Irene Dunne — Rex Harrison
Linda Darnell
'ANNA AND THE KING OF SIAM'

SATURDAY NOV. 9
DOUBLE FEATURE
Jean Parker in
'ROLLING HOME'

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'NORTH OF THE BORDER'

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Cary Grant — Alexis Smith
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ROLLAMO

WEDNESDAY NOV. 6

ADM. 10 & 13c Inc. Tax

Joan Fontaine — Geo. Brent
'AFFAIRS OF SUSAN'

THURSDAY, NOV. 7

ADM. 10 & 13c Inc. Tax

Fred MacMurray
'MURDER HE SAYS'

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