



12 Nov 1929

The Missouri Miner, November 12, 1929

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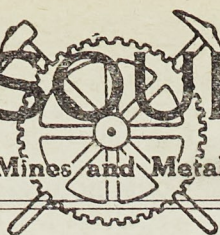
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THE MISSOURI MINER.

Missouri School of Mines and Metallurgy, Rolla, Missouri.



Vol. 16

Tuesday, November 12, 1929

Number 8

1929 FOOTBALL SCHEDULE

Miners 13, Kirksville 12
Lombard 7, Miners 6.
Miners 73, McKendree 0
Miners 19, Central 6
Miners 0, Westminster 12
Nov. 15—Maryville, Rolla
Nov. 23—Northeast Teachers,
Muskogee, Okla.
Thanksgiving—Drury, Spring-
field.

MINERS BOW TO BLUE-JAYS

12-0 IN HARD FOUGHT BATTLE

Despite the fact that the Miners gained almost as much yardage from scrimmage as the Westminster crew, the Jays emerged victorious in the hardest battle fought on the Miner gridiron this season. Boyd, Westminster star quarter back was largely responsible for the Westminster victory in that he carried the ball most of the time, made most of the passes, and accounted for much yardage from punts when necessary. Hassler and Schofield were the best ground gainers for the Miners in this clash. Both teams used line plays most of the time for the chief gains.

The Miners had the best of the argument the first quarter, held their own in the second and third, but were decidedly outplayed in the last period. The Westminster team accounted for one more first down in the game than the Miners.

The Blue Jays tallied in the first period when Boyd's kick went over Hyland's head and stretched the punt to 70 yards. The Blue Jays took Hassler's kick well in the Miner territory and completed a pass almost to the goal line. Boyd made the touchdown. They scored again in the third period by a march from the center of the field. The Miners threatened to score on several occasions but each time they lacked the final punch necessary for a touchdown.

Hassler completed a 24-yard pass

Continued on page eight.

M. S. M. GLEE CLUB PRESENTS EXCELLENT RECITAL

A representative General Lecture audience was pleased last Thursday evening with a recital presented by the M. S. M. Glee Club. Under the direction of Mrs. Verona Trowbridge, the boys have been making excellent progress this year as demonstrated by the pleasing manner in which they presented a program—varied in content and wide in musical scope. The repertoire consisted of selections suited to chorous rendition.

An additional feature of the program was the performance of two Radio Baldwin artists. Those who listen regularly to station K.W.K. needed no introduction to C. G. Cosby baritone, and Lila Harrison Canter, pianist. The detailed program:

Indian Dawn.....Zamecnik
Glee Club
Bells of St. Mary.....Adams
Quartette

Tieman, King, Hanley, Achuff
(A) I Want It All (From the
Princess Beggar).....Rebyn
(B) Goodbye Little Girls (From
Apple Blossom).....Kreisler
C. G. Cosby, Baritone
Lila Harrison Canter, Accompanist
Drinking Song. Student Prince
Donnelly

Double Quartette
Parker, Hanley, King, Gilmore
Tieman, Lundius, Achuff, Palmer
(A) Fantasie Impromptu.....Chopin
(B) Viennese Waltz

Friendman-Gaetner
Lila Harrison Canter, Pianist
Bells of the Sea.....Solmon
Glee Club

Intermission, Three minutes.
Jerusalem Mornin'.....O'Hara
Just Been Wonderin'.....Canning
Double Quartette

Parker, Hanley, King, Gilmore
Tieman, Lundius, Achuff, Palmer
(A) Waltz, E. Minor.....Chopin
(B) Rigalotte Parapheose

Verdi-Liszt
Lila Harrison Canter, Pianist
My Wild Irish Rose.....Olcott
Trio

Parker, Hanley, Achuff

Continued on page eight.

NOTICE!

FRESHMAN CLASS ELECTION

The election of Freshman Class officers will take place Friday, Nov. 15th, at Parker Hall. All petitions for nominations must be turned over to the Senior Council by 5:00 p. m. Thursday. Voters are reminded that petitions for nominees for officers must be signed by 25 members of the class.

CONFERENCE ON GEOPHYSICAL PROSPECTING AT GOLDEN, COLORADO.

On October 14th and 15th there was held at the Colorado School of Mines, Golden, Colo., a conference on methods of teaching and subject matter of courses in geophysical prospecting. This conference, which was called at the suggestion of Dr. Dorsey A. Lyon of the Utah Experiment Station and Dr. Charles H. Fulton, was attended by representatives of the following institutions: The Colorado School of Mines, the Montana School of Mines, the Utah School of Mines, the New Mexico School of Mines, the Michigan College of Mining and Technology, the South Dakota State School of Mines and the Missouri School of Mines and Metallurgy. The conference was fruitful of results and it was concluded that geophysical prospecting would be best taught as a graduate subject, though certain fundamental and underlying courses in mathematics and physics and a general descriptive course should be given in all mining schools. The intimate relationship between geophysical prospecting and geologic interpretation was also brought out. As representatives of the Missouri School of Mines and Metallurgy, Dr. Charles H. Fulton and Professor F. C. Farnham of the Physics Department were present.

From Golden, Dr. Fulton went to Rock Springs, Wyoming at the invitation of Mr. Eugene McAuliffe of the Union Pacific Coal Company to address the high school students and teachers of Rock Springs and ad-

Continued on page four

SCHOLARSHIP AND FELLOWSHIP.

The library has just received two books which undoubtedly will be of much interest to many Miners. They are: The Bulletin of the National Research Council, which deals with Fellowships for Advanced Work in Science and Technology. The second book is the Institute of International Education which deals with the same subject as the first.

The first book has a complete list of all the scholarships and fellowships that are offered in the American Colleges. There are a little over a thousand of them with monetary values of from one hundred and fifty to two thousand dollars. The average runs between six hundred and seven hundred dollars. Scholarships are offered in the following technical subjects: Aeronautics, Chemical Engineering, Electro-Chemical Engineering, Geology, Civil Engineering, Highways, Mathematics, and Mechanical Engineering.

The second books deals with the scholarships given for study in the foreign countries in the following subjects: Anthropology, Biological Research, Chemistry, Electricity, Geology, Hydraulics, and other subjects.

RUBOTTOM-LEAVITT

At 5:30 p. m. on October 21, Thomas W. Rubottom, '29 and Alice Leavitt of Rolla were united in marriage. They were married in Moores, Pa., where Tommy is employed as mechanical engineer by Westinghouse Electric Co. They will make this their future home. Mr. and Mrs. Rubottom now reside at 1138 Madison Ave., Moores, Pa.

The entire student body extends its heartiest congratulations and best wishes to the happy pair.

M. L. (Babe) Dorris, '23, of the Braden Copper Company, Sewell, Chile; Theodore Herman, '27, of the Bethlehem Steel Company; and Frank C. Mulford, '23, of the Patino Mines and Enterprizes, Catavi, Bolivia, were campus visitors the last of October.

The Mining and Metallurgical Association held a meeting Friday in the Metallurgy Building. Francis B. Foley, Superintendent of Research of the Midvale Steel Company of Philadelphia addressed the meeting, discussing "Steel in the Mining Industry." Mr. Foley brought out many interesting points dealing with

wear, fatigue, and the effect of heat treating upon the life of steel used in the mine and mill.

BOOK WORM BORINGS

Cold weather approaches and it won't be long until the Miners will be forced to stay off the streets and hug the stove during the long winter nights. Bull sessions will be the predominating mode of diversion but we can't lie forever and get by with it, so the library offers a good means of spending the time enjoyably and profitably.

Among the new books recently added to the library is "Drugs, Devils and Doctors" by Haggard. It is all that the name implies. Vivid descriptions of medical surgical operations, plagues and tales of the professional ethics involved, make it a very absorbing work. It also has many illustrations that would be inspirations to our local artists. Accounts of public brothels, owned and controlled by the orthodox church, contributes the sex appeal necessary to make this book a popular number.

The book critics seem to have given Joan Lowell's "Cradle of the Deep" the benefit of the doubt and have conceded her the best liar in years. The book is interesting, however, if only for a disclosure of her mastery of profanity and frankness. "Salt Water Taffy" by Corey Ford is a burlesque on this book and is much more cleverly written. Don't miss this one for real entertainment. The chapter about the sailors' visit to the Virgins is a masterpiece of humorous cynicism. Corey Ford gets by with a lot of slander in this book that would otherwise hardly be permissible. Suggestion—don't commit murder, just write a book.

"Black Roses" by Young is an account of the struggles and love affairs of a young artist and the mistress of a gold beater in Naples. His action in a great plague that comes to the city lends color to the story. "Ladies and Gents" by Caspary is another of these impossible stories of the daughter of a circus performer who becomes a famous shimmy dancer and almost marries an earl. All Miners who are True Story addicts will call this a classic volume.

One of the best books on the World War that has yet been written is "All Quiet On The Western Front" by Remarque. This is a German soldier's account of the war and seems to have written without

Continued on page seven.

Modern Rooms FOR RENT SEE FRED W. SMITH

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and fails to cultivate them is
like the man who makes
money and fails to save any
of it.

Rolla State Bank

POSSIBILITY OF IMPORTANT MINERAL DISCOVERIES IN THE ANARCTIC.

The possibility of finding mineral deposits of economic value in the Anarctic is uncertain. Nevertheless, with three exploration parties in the southern polar regions during the current season of 1929-30, notable geological and mineral discoveries, as well as important additions to geographical and meteorological knowledge, may be made.

All three expeditions will investigate particularly the fringe of the polar plateau. Under the direction of D. L. M. Gould, who holds a professorship in geology at the University of Michigan, a party from the Byrd expedition will journey with dog sleds beyond the Ross ice shelf to study the geology of Carmen Land, the Queen Maud Range, and that near Mount Nansen. The region south of Australia that extends from Ross Sea in the east to Enderby Land in the west will be studied by the expedition led by Sir Douglas Mawson, professor of geology and mineralogy at the University of Adelaide. This work will be a continuation of that begun by the Mawson expedition of 1911-14. Sir Hubert Wilkins is undertaking to chart, by aerial methods chiefly, the coast line from Hearst Land to Ross Sea—about 2,000 miles. This endeavor is part of the exploration program started last year by Sir Hubert.

The Antarctic regions unlike the Arctic is evidently largely continental, rather than a poplar sea. Much of the unexplored area is near the Antarctic Circle. Inasmuch as valuable mineral deposits have been found and developed north of the Antarctic Circle. Similarly situated deposits that may be found in the Antarctic might readily be exploited profitably. Coal seams have been found, and Sir Douglas Mawson, in his book, "The Home of the Blizzard," which is a record of his expedition of 1911-1914 to Adelie Land, states that, "Apart from the Moraines, the rock exposed (in situ) was mainly a uniform type of gneiss, crumpled, and folded, showing all the signs of great antiquity—Pre-Cambrian, in the geological phase. Relieving the gray sheen of the gneiss were dark bands of schist which tracked about in an irregular manner. Sporadic quartz veins here and there showed a light tint. They were specially interest-

ing, for they carried some less common materials, such as beryl, tourmaline, garnet, coarse mica and ores of iron copper and molybdenum. The ores were present in small quantities, but gave promise of large bodies in the vicinity and indicated the probability of mineral wealth beneath the continental ice cap.

These words of Sir Douglas Mawson may seem optimistic, particularly as no important mineral discoveries have yet been announced from the Antarctic. Nevertheless, they indicate that something new and of interest to the mining fraternity may come out of the south pole regions.

Oxford University of England, whose debating team will set sail soon for an invasion of the United States, has scheduled a debate with the orators from Culver-Stockton College at Canton, Mo., for the evening of December 2.

SUCCESS

He has achieved success who has lived well, laughed often and loved much; who has gained the respect of intelligent men and the love of little children; who has filled his niche and accomplished his task; who has left the world better than he found it, whether by an improved poppy, a perfect poem, or a rescued soul; who has never lacked appreciation of earth's beauty or failed to express it; who has always looked for the best in others and given the best he had; whose life was an inspiration; whose memory is a benediction.

— Mrs. A. J. Stanley

Notice (outside second hand store): Mrs. Molinsky, having cast-off clothes, now invites inspection.

—Yale Record

The only difficult thing about proposing to a girl under a beautiful summer moon is to keep from making a success of it.—Life.

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W. C. GLAWSON, Prop.

Continued from page one.

joining communities.

Mr. McAuliffe at Rock Springs has created one of the best and forward looking coal mining communities in the United States. The following M. S. M. men are employed by the Union Pacific Coal Company: W. H. Weimer, K. V. Cammack, M. S. Sharpe, D. Zimmerman, and G. W. Frotscher. H. D. Thomas until recently was also an employee of the Union Pacific Coal Company. On Wednesday night, October 16th, a dinner was given by the officers of the Union Pacific Coal Company at which all of the M. S. M. men were present. Dr. Fulton made a brief address.

Dr. Fulton also spent a day at the University of Wyoming, Laramie, Wyoming, where he found Professor Joseph R. Guiteras in charge of the Mining Department and R. L. Rhoades, Dean of the Engineering School. Mr. Guiteras was Associate Professor of Mining at the Missouri School of Mines and Metallurgy from September, 1920 to September 1925, and Mr. Rhoades was Associate Professor of Mechanical Engineering at the same institution during the school year 1920-21.

MINERS TO MEET MARYVILLE TEACHERS SATURDAY.

The Miners will battle one of the best teams in the M. I. A. A. conference when they meet the Maryville Teachers next Saturday. The Miners have already defeated the Kirksville Teachers who are in the same conference and who are credited with a stronger team but the Maryville team is sure to put up a strong fight.

Although the Miners have lost their chance to win a title this year they still have a chance to demonstrate their prowess against some strong teams. The game Saturday will be the last home game of this season. It is up to the student body to come out in force Saturday and show the fellows who have worked so hard all season that they will not be let down just because a few breaks have been against them.

SIGMA NU TACKY PARTY.

The result of the Miner football fracas in no way dismayed the dancers at the Sigma Nu tacky party Saturday night. The original costumes added freedom and color to the fray, while the Varsity Orchestra performed at its best.

The chaperons were Dr. and Mrs.

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DINNER

Lunches

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JIM PIRTLE

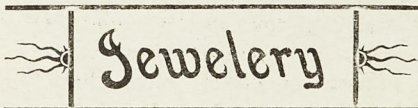
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J. W. Barley, Mr. and Mrs. L. T. Hudson, Prof. and Mrs. E. L. Johnson, Mr. and Mrs. Howard Katz, Mr. and Mrs. V. X. Smith, Mr. and Mrs. E. D. Williams, and Miss Louise Studley.

It seems that the Lambda Chi's boast a strong tag football team. At the present time they have not been defeated. They humbled the K. A.s last week and the Pi K. A.s Sunday, as well as tying the Mercier team last week. All the games were held in the Lambda Chi bowl.

Pi K. A. Pledges to Battle Sigma Nu Pledges and Lambda Chi Pledges On Successive Sundays.

Next Sunday afternoon the Pi K. A. pledges and the Sigma Nu pledges will meet in conflict as a result of a challenge from the Pi K. A.s. This game is supposed to be real football with rules and everything, but it is more than possible that some of the fellows will wish they were playing marbles or something else before the end of the game. If any Pi K. A. pledges left after Sunday's game they will play the Lambda Chi pledges on the following Sunday.

THE MISSOURI MINER

A weekly paper published by the students in the interest of the Alumni, Students, and Faculty of the Missouri School of Mines and Metallurgy, Rolla, Missouri.

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THE TEACHERS OF THE DEPARTMENT OF MATHEMATICS.

The students are, I believe, entitled to more information concerning their teachers than the mere statement of names and degrees in the catalogue. It is popularly supposed that a man who has any noticeable ability in mathematics is a freak, a fanatical theorist, etc. We are frequently told that we are "teaching all we know," that we are trying to "make mathematicians," that we do not have "anything to do but look at the answer," and a lot of other silly rot.

The fact is that 90 percent, at least, of the time, money and work spent in trying to teach something that looks like mathematics is utterly wasted. In spite of the fact that the text books for freshmen and sophomores have gradually been brought to the level of first-year high school pupils, the fact remains that less than 10 percent of the students enrolled in the so-called college mathematics have any business fooling with the stuff at all. They ought to be given a two-year course in plain "figgering," substitution of numbers in formulas, use of slide

rules and calculating machines, and the use of various mathematical tables. A course in college mathematics is supposed to give them a chance to develop their thinking and reasoning faculties. All we can do with the majority of students is to make them commit to memory like a parrot, and to do "stunts" like a horse or a dog. When left to themselves they can do nothing at all. People who have to be coached, crammed and spoon-fed have no business in mathematics classes. A few years ago another professor asked me to take a young man into our department because he just "revels in numerical computations." We do not "revel" in arithmetic. That is not the purpose of courses in mathematics. We teachers try to teach as little as is consistent with "saving our face", to keep our self respect and the respect of the students for the teacher and the course. The fodder or pabulum can be put so low in scope, content, and requirements for passing as to earn the contempt of all decent students. This has happened in several departments since I have been a member of the faculty. At one time the work of a certain depart-

ment consisted of studying catalogues and drawing free-hand pictures, writing on them the names of the parts. This was as much engineering or science as drawing a caricature of a cow and writing on it, "horn", "tail," "leg", etc. That department earned the contempt of everybody on the campus. There always has been a department or two whose name among students has been a by-word, either on account of laxity or unreasonable demands. In mathematics we try to keep the respect of our students for the teacher and the course, and by the "Great Horn Spoon" we are doing it.

In mathematics we try to keep in the middle of the road, realizing that not one in a hundred of our graduates will ever use any mathematics other than plain "figgering." The study of mathematics will "develop the mind" only "when there is a mathematical mind to develop. I have no patience with those old saws about "mind training", "mental discipline", etc. Mental discipline can in most cases be attained better by other means than mathematics. One does not need to read Kant to know these things.

The placement examinations in mathematics do not tell the tale as they involve only grade school arithmetic. There ought to be some way of testing their algebraical and geometrical sense, not how many formulas or theorems they remember. If there were any convenient way of doing this it would be found that only a small minority have any of this kind of sense. I have found that one can teach algebra "till the cows come home" and when the students get into calculus they pull the same old bones.

I am not in favor of any kind of sectioning in mathematics except that of putting the very best, about 5 percent, in a separate section and giving them a "good run for their money," not because they are prodigies, but because they are so much better than the rest that it is impossible to keep them from being bored by the stupid performances of the others. Only about one in three or four thousand has any chance of developing into a real mathematician, so we don't worry about "making mathematicians." Ever since I have been on this campus, exceptional students have been given a chance to learn some real mathematics. Only a small percentage have accepted, and fewer still

have persisted.

The teachers of the mathematics department of M. S. M. are all engineering graduates. Just give the bunch the once-over. We have six trying to do the work of eight, thanks to the parsimony of the solons.

F. E. DENNIE, B. S. in C. E., Brown University. While new in the business, "Spike" is doing very satisfactory work. He passed his calculus and mechanics at Brown and reviewed them in my own classes several years ago.

E. A. GOODHUE, A. B. at Amherst, B. S., California Institute of Technology, M. S. at M. S. M., majoring in chemistry and minoring in mathematics. Is in line for Ph.D., at M. S. U. Mr. Goodhue is not only a good mathematician, but he is a chemical engineer, a physical chemist and a physicist.

V. B. HINSCH, B. S. in Mine Engineering, and holds the degree of Engineer of Mines. Has been teaching for 15 years. Was Professor of Mining in Oklahoma School of Mines. Had most of his mathematics at Armour Institute of Technology, Chicago.

R. M. RANKIN, A. B., Maryville College, Tenn., A. M., University of Chicago, majoring in mathematics, B. S. in Civil Engineering, M. S. M. Has had some practice in engineering. Was Professor of Mathematics, Westminster College, Salt Lake City, and taught high school mathematics before that.

GEO. R. DEAN, C. E. and B. S. in mathematics and physics, M. S. M. Has been teaching just about forty years. Has tried all the tricks in the category, and finds the results about the same. Was assistant in mathematics and engineering while a student. Taught mathematics and science in the old Maryville Semirapids, Iowa. Was assistant in the nary and at Coe College, Cedar Rapids, Iowa. Was assistant in the Leander McCormick Observatory, U. of Virginia, and graduate student in mathematics, practical astronomy and celestial mechanics. Taught mathematics in Kansas City Central High School for three years. Came to M. S. M. in 1897, being in continuous service as head of the department for over 32 years. Was a pharmacist for about nine years, passing examination as registered pharmacist in 1884. Has been doing research work in mathematics and electrical engineering for 35 years, and publishing papers in the American Mathematical Monthly, General Electric Review,

London Electrician, and Physical Review. Is now engaged in investigations of gyroscopic motion.

A. J. MILES will finish his work for the degree of B. S. in Mechanical Engineering this semester. He was "discovered" two years ago in my integral calculus, in which he was the outstanding man. He made the rest look like pygmies. In fact, he is the only student since M. J. Kelly who did not have to be coached, crammed and spoon-fed. He intends to study aeronautical engineering. He began work on his master's degree last year. This work is entirely in mathematics, and includes stiff courses in advanced calculus, vector analysis, differential equations, elliptic functions, analytical dynamics of particles and rigid bodies, functions of a complex variable, and mathematical physics. His thesis will be "The Spinning Top and Its Possible Uses in Geophysical Exploration for Minerals." I used to say that if I ever caught a real student on the campus, I would put him in a glass case, but I changed my mind in this case.

Everyone of this bunch knows a lot more mathematics than he is called upon to teach. If they don't know what engineering mathematics is and how to teach it, who does?

GEO. R. DEAN.

DRESBACH -- LEDFORD

Among the many former Miners who have recently ventured into matrimony we find with surprise and delight Mr. C. Howard Dresbach, '28, who now enjoys the title of "Benedict."

On November 8th, Dresbach was married to the former Miss Mary Elizabeth Ledford, daughter of Mr. and Mrs. Clint B. Ledford. The ceremony took place at the home of the bride at Amarillo, Texas. Mr. and Mrs. C. H. Dresbach will reside at 706-B Forest St., Amarillo, Texas.

Dresbach, better known as "Axel" is working in petroleum production with the Gulf Petroleum Corporation. We take especial pleasure in congratulating him, for he has so recently been with us. That Mr. and Mrs. C. H. Dresbach will enjoy a long, prosperous, happy life together is the wish of the Miner.

RECENT RESEARCH

PUBLICATIONS OF THE CERAMIC DEPARTMENT.

Mr. W. D. Keller published in the Brick and Clay Record, his method of estimating the alumina content

of diaspore. This method can be used in the field.

The October number of the Journal of the American Ceramic Society contains an article by A. J. Paul and Dr. M. E. Holmes on the effect of bentonite on Missouri fire clay.

The July number of Rock Products contained an article on Stable Dolomitic Refractories by Dr. M. E. Holmes.

Harlow Jones published in the November number of the Journal of American Ceramic Society an article on Diaspore Chromite Refractories.

GENERAL LECTURES

The General Lecture Series entertainment for Thursday of this week will be one of the Yale "Chronicles of America" Photodramas. This week's number will be the Voyage of Columbus. These photodramas, produced under the direction of the Yale University prses, are recognized as perhaps the most significant contribution yet made in the field of visual instruction.

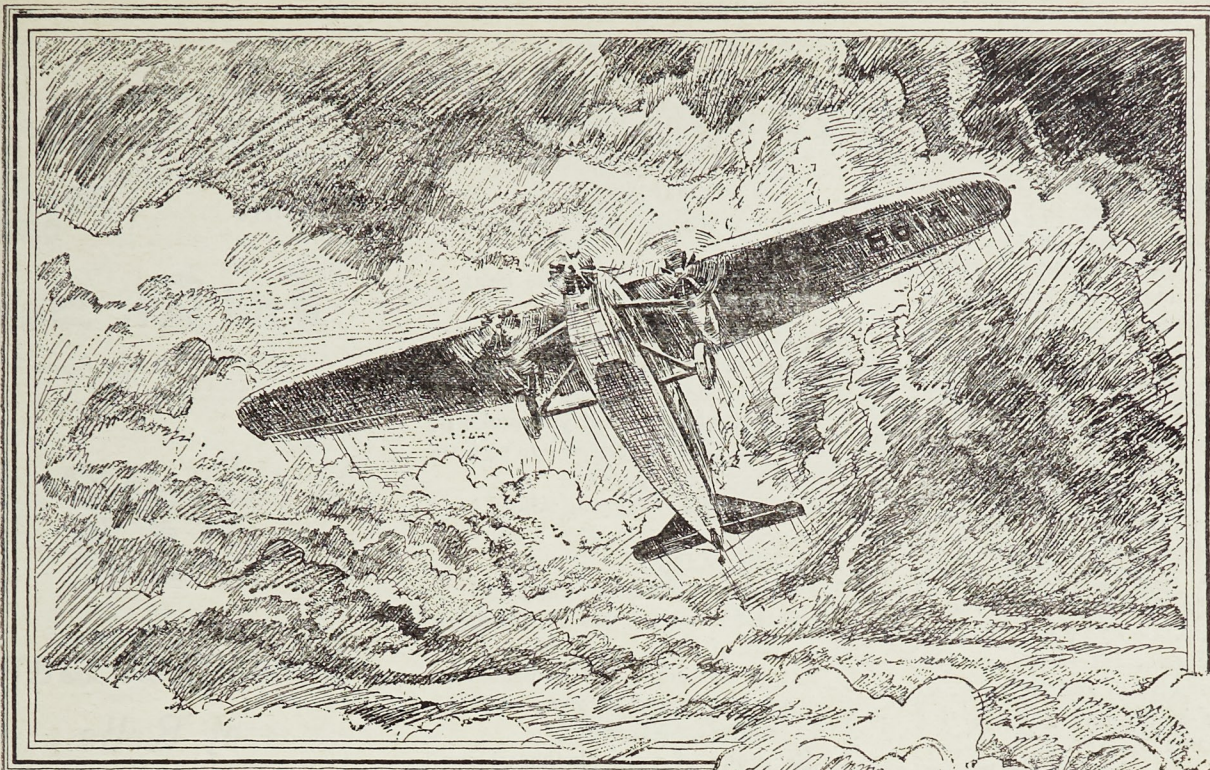
Yale University has tried, in this series of Chronicles, to present the true facts of history without the many popular fallacies which are so often taught in history courses. It is expected that any one viewing this picture will get an entirely new impression of Columbus and his famous voyages.

Outstanding Numbers To Be Presented In The Near Future.

On Nov. 21, Senator W. R. Painter of Carrollton, Mo., will present a talk in the series of General Lectures. Senator Painter graduated from M. S. M. in the class of '82 in Civil Engineering, however he soon left his profession and entered newspaper work and now he is one of the most influential men in Missouri Governmental affairs. He is a state senator and a member of Gov. Caulfield's State Survey Commission. The subject of Senator Painter's will be announced later.

Dr. Robert A. Millikan, head of the California Inst. of Technology, will be here Monday, Nov. 25. Dr. Millikan is the Director of the Norman Bridge Laboratory of Physics of the California Institute of Technology, and is one of the outstanding physicists of the world.

On Jan. 30, George C. Willson, a well known lawyer from St. Louis will present an address entitled, "The Engineer and the Law". Mr. Willson is a member of the Executive Committee of the School of Mine and is a very interesting talker.



WHERE QUALITY IS PARAMOUNT

Oxy-acetylene welding is used for joining fuselage members in the construction of over 85% of the airplanes built in this country. In this service hundreds of thousands of oxwelded joints have proved their dependability and strength under all conditions—in the Tropics—on Polar explorations—on endurance and trans-oceanic flights and for routine commercial flying.

No field of industry makes more exacting demands of quality and performance than the manufacture of aircraft. The modern plane is tested and inspected thoroughly in every stage of its construction. Quality of design, materials and workmanship is paramount. Acceptance of oxy-acetylene welding as standard practice in this new and progressive industry is of outstanding significance.

From time to time the oxy-acetylene industry is in the market for technically trained men. It offers splendid opportunities for advancement.




C. G. JAX
District Sales Manager,
 University of Wisconsin 1924
 Crew Committee Member
 Chi Phi Fraternity



F. F. STODDARD
Technical Publicity Dept.
 Syracuse University 1926
 Football 4 years
 Lacrosse 4 years
 Individual Trophy 1926
 All American 1926
 Basketball 2 years
 Phi Delta Theta Fraternity

One of a series of advertisements featuring College men serving this industry.

The Linde Air Products Company — The Prest-O-Lite Company, Inc. — Oxweld Acetylene Company — Union Carbide Sales Company — Manufacturers of supplies and equipment for oxy-acetylene welding and cutting—Units of

UNION CARBIDE AND CARBON CORPORATION
 30 East 42nd Street  New York, N. Y.

THE AMBITIONS OF SOME PEOPLE.

McKendree College at Lebanon, Ill., has a former world's champion in their student body. Bertram Smith, one of the undergraduates, recently chewed forty-five sticks of chewing gum at one time for what was believed to be an all-time world's record while more than two hundred fellow students witnessed the feat. However, Champion Smith's record and glory were short lived; less than a week later Adner Rosenblatt of University City chewed fifty-one pieces at one time and claimed that there was room for four more, but evidently he couldn't raise the necessary four "coppers" with which to purchase a "capacity load" for his record had to stand at that. So far he is the champ. Couldn't we get some of our students interested in this type of competition and try to bring some more honor and glory to the dear old Alma Mater?

—Varsity Breeze.

THE BRAIN RACK:

DO YOU KNOW THAT—

1. If the Leviathan were stood on edge beside the Woolworth Building it would probably ruin a lot of good sidewalk?
2. If you took a bath in mid-ocean you would have no place to hang your towel?
3. Elephants may not be sent parcel post?
4. If all students who sit and sleep through 8 o'clock lecture classes were laid end to end they would be more comfortable?
5. There are no bones in waffles?
6. If all the packages of cigarettes which are sold in New York subway stations in one day were stacked one atop the other on the roof of the Wrigley Building, they would undoubtedly fall over?
7. A banana is devoid of a backbone?
8. Now is the time to buy thermometers; they will be higher next summer?
9. Every dog has his day, but the puppy with a broken tail has his week end?
10. Clothes makes the man and lack of them the woman?
11. Cream is more expensive than milk because it is harder for the cow to fill smaller bottles?
12. Although nature gives us our faces, she lets us pick our own teeth?
13. A rooster should know his eggs, and a street cleaner his oats, but it is very essential that a policeman be

acquainted with his beets?

—Varsity Breeze—Hell Jay Kay

"HOW DID YOU DIE"

Did you tackle that trouble that came your way

With a resolute heart and cheerful?

Or hide your face from the light of day

With a craven soul and fearful?

Oh, a trouble's a ton, or a trouble's an ounce,

Or a trouble is what you make it, And it sin't the fact that you're hurt that counts,

But only how did you take it?

You are beaten to earth? Well, well, what's that?

Come up with a smiling face!

It's nothing against you to fall down flat,

But to lie there—that's disgrace. The harder you're thrown, why the higher you bounce,

Be proud of your blackened eye! It isn't the fact that you're licked that counts;

It's how did you fight and why?

And though you be done to death, what then?

If you battled the best you could, If you played your part in the world of men,

Why, the Critic will call it good. Death comes with a crawl, or comes with a pounce,

And whether he's slow or spry, It isn't the fact that you're dead that counts,

But only how did you die?

—Edmund Vance Cooke.

A queer combination to be seen now and then around the campus of Illinois U. is George Brown, eighteen, the smallest freshman ever enrolled at Illini. He is 48 inches tall, weighs 47½ pounds and looks even smaller when seen next to Lou Gordon, powerful 220-pound football star who stands six feet four inches.

SCHUMANS

BEST LEATHERETTE

RAIN COATS \$5.75

Not Rubber nor a slicker

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BILLIARDS
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Continued from page two.

prejudice. It is not propaganda, but only and excellent novel. The ardent militarists are challenged to give this book an impartial reading. Some callous views upon the need of preparedness and the sanctity of patriotism might undergo a change. When you finish that you might read "L. M. 8046" by King.

The mayor of Boston recently censured the play "Strange Interlude" by O'Neil, consequently it played to crowded houses elsewhere. It is the one outstanding drama of the past few years and is the most interesting of the few dramas that can be read. The style is wholly unique and for those who have not read it a big surprise is in store. When a person's thoughts are put down in black and white the effect may be rather startling. Read it and judge for yourself.

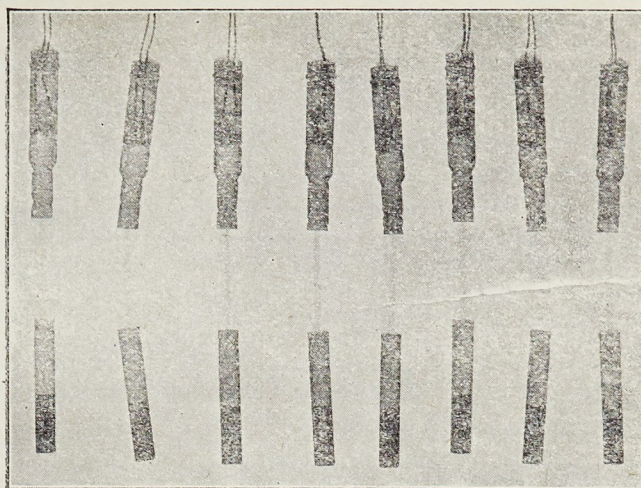
"Little Caesar" by Burnett is a story of gang war in Chicago. Cold blooded murder, hi jacking, boot-legging and casual contacts with women seem to be mere details in the gangsters routing. "Thieves Night" by Keeler is another of these wild tales of robbery and intrigue. Improbable, yet plausible, they are an excellent means of diversion from the routine of school work and pool playing. (Attention Sgt. McKimmey!)

Of the many books written recently that may be called sophisticated, "How Like a God" by Rex Stout is the best. Another narration of the sex life of an ordinary but fortunate man, who ends the novel by the cold blooded murder of the woman who ruins him. We will make the concession, however, that he did an excellent job.

These are only a very few of the new books that may be obtained from the library. New ones are being added from time to time and may be obtained at your convenience. The library is for the use of the student so don't hesitate to ask for what you want.

Ford

**L. T. HUDSON
MOTOR CO.**



This illustrates the use of X-ray photography in testing for uniformity in Hercules delay electric blasting caps. The X-ray reveals, from top to bottom of each delay electric blasting cap, the lead wires, firing head, delay fuse (in which only the powder train shows), and the blasting cap.

WHY HERCULES DETONATORS ARE RELIABLE

EXHAUSTIVE attention was given to the basic design of Hercules Detonators. They are manufactured with painstaking care from materials selected and tested with equal vigilance. After all that is humanly possible has been done to control the manufacturing processes, the product is subjected to a series of elaborate and costly tests.

In making these tests, many branches of science are utilized. The X-ray looks through the copper shells to search out any flaw which previous to this scientific operation, could only be found by destroying the detonators. Microphotography is called upon to tell a significant story to the explosives chemist. All standard tests of recognized value as well as special tests devised in the Hercules laboratories are used to insure the reliability of Hercules detonators.

HERCULES POWDER COMPANY

(INCORPORATED)

Wilmington

Delaware

HERCULES POWDER COMPANY, 941 King Street, Wilmington, Del.

Gentlemen: Please send me your book "Hercules Detonators."

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Address.....

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FOLLOWILL DRUG CO.

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Jewelery, Stationery, Belts
Fobs and Novelties

Continued from page one

to Londrigan just as the half ended and it looked as if the Miners were going to score but the Blue Jay safety man saved the day for his team. At the beginning of the second half the Miners took the ball and started a march down the field that was stopped only on the Westminster 10 yrd when the Miners fumbled and lost another excellent chance to score. Again, in the same period Thornton picked up a fumble and ran for a touch down but was called back because the referee ruled that the Blue Jay was downed before he fumbled. The Miners staged a desperate passing attack in the last quarter but with very little result.

This defeat ousted the Miners from the race for the M. C. A. U. title this year. The winner of the championship will be decided next week when the Blue Jays and the

Missouri Valley Vikings, both undefeated teams, meet. At present the Vikings are favored slightly.

The game Saturday marked the annual Vocate home-coming. One of the largest crowds ever assembled on Jackling Field witnessed the clash.

The starting line-up:

Miners	Westminster
Londriganl.e.	Wylie
Gorensteinl.t.	Blanton
Lacyl.g.	Hall
Tomlinsonc	Duncan
Andresr.g.	Searce
Gibsonr.t.	Taylor
Malikr.e.	Howard
Kellyl.h.	Harrison
Hylandr.h.	Cox
Thorntonq.b.	Boyd
Hasslerf.b.	Crews

Summary of the game: Total yardage from scrimmage: Miners 193; Westminster 194. First downs: Miners 12, Westminster 13. Passes: Miners, attempted 14; completed 1 for 30 yards. Westminster attempted 7, completed 1 for 7 yards. Punts:

Miners 12 for average of 37 yards, Westminster 9 for average of 40 yards. Penalties: Miners 3 for 20 yards; Westminster 3 for 30 yards.

Continued from page one.

Serenade—Student Prince..Donnelly
Double Quartette

Parker, Hanley, King, Gilmore
Tieman, Lundius, Achuff, Palmer
(A) My Desire.....Nevin
(B) Bird's Song at Eventide....Coates
C. G. Cosby, Baritone

Gypsy Life.....Scott

Glee Club
Verona Trowbridge, Directress
Monty Malloy, Accompanist

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