



22 Nov 1932

## The Missouri Miner, November 22, 1932

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# THE MISSOURI MINER

MISSOURI SCHOOL OF MINES AND METALLURGY

VOLUME 19

ROLLA, MO., TUESDAY, NOVEMBER 22, 1932

NUMBER 10

## ST. VIATOR, MINERS FAIL TO SCORE

### M. S. M. GETS LAND TRACT

#### Will Aid Library

**Dr. J. A. Hielscher, Mankato, Minn., Class of '12, Donates School 280 Acres for Use in Improvements**

Dr. J. A. Hielscher, who is now practicing the medical profession in Mankato, Minn., is a former student of the Missouri School of Mines, graduating in 1912 with a B. S. degree in General Science. Dr. Hielscher says that the two years spent in Rolla while studying have been the pleasantest of his life. He has generously donated to the school, three tracts of land to be used for the improvement of the school library. The land, 280 acres in all, may be rented or sold.

A sketch of his life has been written by his wife, who the Doctor says, represents the literary end of his family.

Dr. Hielscher was born in a log cabin, in the heart of what was then known as the "Big Woods," LeSueur County, Minnesota, Oct. 21, 1864.

His boyhood was hard and exciting, as was the manner of his time, but as so often happens this only served to stimulate his courage and ambition. At eighteen he entered Northwestern College, Naperville, Ill. Here he worked his way through the course, taking time off for two years to replenish his finances. He graduated at the age of twenty-four with the degree of Laureate of English Literature in June, 1888, and in September of the same year, entered the Medical Department of the University of Minnesota.

He graduated from this school in 1891 and the following day opened his office in Mankato, Minn., where he practices to this day with two breaks in his continuity of service. The first was when he took an extended vacation, and the second when he served in the late war.

His vacation occurred after twenty years of the strenuous practice that these early days demanded, climaxed by a severe outbreak of typhoid fever in his community. He knew he needed a vacation but he hated the idleness it entailed, so he sought for rest in a change of work. He had always been interested in geology and his heart drew him to Rolla, Mo. He had never forgotten a trip through the Ozarks in his

(See HIELSCHER GIFT Page 4)



THE MINER EXTENDS HOLIDAY GREETINGS

### 16 STUDENTS ARE HONORED

#### All Rank High

**Phi Kappa Phi, Honorary Society Which Stresses Scholarship and Character, Announce New Pledges**

Last Friday, the School of Mines chapter of Phi Kappa Phi took charge of the mass meeting at which the new members were pledged. Prof. Jensen opened the meeting and turned it over to Dr. Woodman, who made a few remarks on the history and meaning of Phi Kappa Phi.

Phi Kappa Phi is an honorary society the prime subject of which is to emphasize scholarship and character in the thought of college students. It differs from other scholarship societies in that it encourages scholarship in every line of study. Students in the various colleges and schools of liberal arts, agriculture, engineering, education, law, commerce, stand on an equal footing in election to membership.

To meet the requirements of the membership standards of the society a student must rank in the upper fifth of his class. The local chapter elects from the upper fifteenth per cent of the Senior Class. Two elections are held each year—one each semester. The majority of the year's selections are made at the fall election.

Those elected to Phi Kappa Phi this fall are listed as follows: R. L.

(See PHI KAPPA PHI Page 2)

### SILVER AND GOLD CLOSE 1932 SEASON WITH SCORELESS TIE

#### Sea of Mud Slows Down Offensive Play

**Capt. MacDonald Slips Through the St. Viator Line for 20 Yards for Longest Gain of the Game; Damp, Wet Ball Halts Aerial Tosses; Punting Dominates Entire Afternoon's Play**

#### M. S. M. Football Schedule for 1932

Pittsburg Teachers—13; Miners—0.  
Arkansas University—19; Miners—20.  
Oct. 7 or 8, open.  
Drury, 0; Miners, 40.  
Kirkville Teachers—12; Miners—7.  
Springfield Teachers—7; Miners—34.  
Maryville, 0; Miners, 14.  
Tulsa U., 26; Miners, 0.  
St. Viator, 0; Miners, 0.

#### Library to Observe Coming Holidays

During the Thanksgiving holidays the School of Mines Library will be open on the following schedule:

Wednesday, Nov. 23, 8:00 a. m. to 12 m.—1:00 p. m. to 4:00 p. m.  
Thursday, Nov. 24, Closed all day.  
Friday, Nov. 25, 8:00 a. m. to 12 m.  
Saturday, Nov. 26, 8:00 a. m. to 12 m.  
Sunday, Nov. 27, Closed all day.  
—MSM—

#### Orton Society Holds Meeting

Last Wednesday night the Orton Society held a meeting and had a very interesting program. The first speaker was Prof. Paul of the Ceramic Department, giving a very interesting and instructive talk on crystalline glazes. Glazing is one of the important phases in the manufacture of clayware. Prof. Paul showed some examples of pottery which he had glazed himself and there certainly were some beautiful crystalline shapes. He also showed how

(See ORTON SOCIETY Page 3)

In their last game of the 1932 football season the Miners were unable to score against St. Viator. The game was played in a sea of mud which slowed up the game considerably and prevented any passing. The Miners attempted but one pass which was incomplete. St. Viator attempted five passes and completed one for a gain of 14 yards.

The only long run of the game came early in the first quarter when Capt. MacDonald took the ball on the Miners' forty-one yard line and cut through the line behind wonderful interference to St. Viator's thirty-nine yard line.

The Miners outplayed their rivals to gain more yardage in every quarter of the game. Murgatroyd's excellent punting saved St. Viator several times during the game as the Miners pushed the ball down towards their goal.

St. Viator threatened to score once late in the first half after advancing the ball to the Miner fourteen yard line. The Miner line held and a pass over the goal line gave the Miners the ball on their own twenty yard line.

The Miners threatened to score several times during the game but several bad breaks in the shadows of the goal posts prevented any score.

St. Viator lost considerable yardage due to penalties assessed for holding and using the hands on the offense. John Meany, 210 pound center, was disqualified in the fourth quarter for unnecessary roughness.

Captain MacDonald and Williams shared the honors in the backfield for the Miners. R. Towse was out of the game most of the time due to an injured foot. Freddy Schwab played his usually good defensive game. P. C. MacDonald, Gibson and Kirchoff were outstanding in the line.

Murgatroyd and Bernard starred for the visitors.

#### First Quarter

Miners defend west goal and kick-off to St. Viator. St. Viator returns

(See FOOTBALL Page 6)



### PHI KAPPA PHI (Continued from Page 1)

Braeutigan, Belleville, Ill.; H. B. Coons, Potosi, Wis.; V. I. Dodson, Greene, N. Y.; Thorpe Dresser, St. Francois, Mo.; O. C. Garst, Rolla, Mo.; W. H. Lenz, Concordia, Mo.; Sidney Levy, St. Louis, Mo.; J. D. Martin, St. Louis, Mo.; E. R. Mertz, Clayton, Mo.; G. H. Musson, Kansas City, Mo.; Mabel E. Phillips, Rolla, Mo.; J. J. Picco, St. Louis, Mo.; C. C. Rodd, Marion, Ill.; Reinhardt Schuhmann, Jr., Gunnison, Col.; G. P. Steen, Springfield, Mo.; and Ellen F. Woodman, Rolla, Mo.

—MSM—

### Stephens College Trio Well Received

Last Thursday evening, the student body and townspeople of Rolla were delightfully entertained by a faculty trio from the Stephens College of Columbia. Of this trio, who comprize the music department at Stephens, Mr. B. D. Gauntlett played the piano, Miss Valborg Leland played the violin, and Miss Elizabeth Fretz played the violoncello.

All three of them gave excellent performances. Mr. Gauntlett, on the piano, probably gave the best performance, but all three performed so well it would be hard to differentiate between the worth of the renditions given.

Both Mr. Gauntlett and Miss Valborg have studied extensively in Europe, while Miss Fretz has done quite a bit of studying in this country.

They presented a well-selected and representative program consisting of works of well-known composers. Of the numbers presented by the trio, the Hungarian Dance by Brahms had the most appeal. Below is the program as they presented it:

TRIO IV. Op. 11 ..... Beethoven  
'CELLO  
Andante from "Orpheus and Eurydice" ..... Gluck-Schulz  
Rondo ..... Boccherini  
Miss Fretz

VIOLIN  
Caprice ..... Elgar  
Spanish Dance No. 8 ..... Sarasate  
Miss Leland

TRIO  
Elegie ..... Arensky  
Scherzo ..... Mendelssohn  
PIANO  
Mazurka ..... Chopin  
Etude ..... Chopin  
Nocturne ..... Chopin  
Polonaise ..... Chopin  
Mr. Gauntlett

TRIO  
Molly on the Shore.....Percy Grainger  
Norwegian Dance ..... Grieg  
Hungarian Dance ..... Brahms  
—MSM—

### Alfred University Co-eds Burned Out

ALFRED, N. Y.—(IP)—Some 100 women students at Alfred University were driven out into a snow storm last week when a five-story co-ed dormitory was gutted by flames. Many of the co-eds managed to save a few of their personal belongings, but most of the women lost all they owned at school.

—MSM—

One of our economic system's weaknesses is the overconcentration of wealth in the hands of a few individuals.—Secretary of War Hurley.

### Study of Economic Struggle Stressed

Speaking to the student body, trustees and faculty of Allegheny College recently on the subject "Thoughts of Making a Living," A. W. Robertson, chairman of the board, Westinghouse Electric & Manufacturing Company, stressed the need for the scientific or laboratory approach to solution of the nation's economic problems. Likening business depressions to visitations of typhoid fever and other epidemics which have been cured by study, Mr. Robertson called upon the college graduate and the man of education in general to seek cures for business slumps. He ascribed their recurrence to ignorance of basic economic principles. Chairman Robertson said: "We suffer from what has been called 'this stupid depression' because our attitude of mind toward economic and business problems is wrong. We know little about economics or business. We spend all our time in improving, perfecting and marketing marvelous devices—machines and what not—but little or no time in the study of basic factors governing our economic, social and political life.

"It is stupid to suffer as the world has suffered recently and will suffer for months to come. It is probably as stupid as the old epidemics before we learned the cause of typhoid fever and applied the necessary cure to end typhoid epidemics in civilized society for all time.

"We must apply the same attitude of mind, the same zeal for cure shown by the medical heroes and martyrs in solving the problems of disease epidemics, to the solution of our economic ills. Solution must be found and will be found, somehow. The solution when discovered will probably be as different from the recommended cures of today as are the present methods of preventing typhoid today different from the old ineffective practices and recommendations. Our present-day economic cures are, of course, the best we know in our present ignorance.

"If this be a fair statement of the case, to whom shall we turn for help if not the college graduate, to the educated man, generally speaking. Here is a tremendous opportunity for service. The approach to the solution undoubtedly must be the scientific approach, the open-minded search for a true answer. The searcher must have the heroic zeal of the doctors who searched for and found in their laboratories and in dangerous experiments the way to control and cure pestilence and disease. The searcher for economic truth must be on fire with a desire to abolish the ravages of depression. He must hate these visitations of business prostration with their attendant human suffering as the pioneers in medical discovery loathed typhoid, yellow fever and the other

scourges which they sought to conquer.

"We as citizens of a great nation must cultivate an attitude of mind which will stimulate such searching for economic truth. We cannot expect our civilization to endure any more than former civilizations endured unless we find the cure for economic diseases which threaten its very life. The task is yours. Evade it at your peril. The times cry aloud for solution of these problems. If your nation is to be worthy, the attitude of mind of its citizens must change to one of helpful inquiry into the cause and cure of our deep-seated economic troubles."

Mr. Robertson also said:

"It is now generally accepted that human beings are the most important part of any business. Employees are the first consideration of every business. The success or failure of a business depends after all on the quality of the human brains running it. Why do some companies meet every competitive condition with success and others fail? The answer lies in the brains and mental attitude of the organization.

"If you would make a living in this dizzy world of ours, it is more important that you have a right attitude of mind than it is that you have knowledge. The right point of view makes all things impossible. We are told by some that we are slaves. If being a slave means doing only what we have to do, then most of us are in truth slaves, but he who does more than he is required to do becomes at once free. He is his own master. How often do we hear it said 'It was not my work.' Too often we fix our minds almost entirely upon what we are going to get and give no thought at all as to what we are going to give in return.

"Our interpretation of the careers of conspicuous human beings in this world often leads us to the erroneous conception that, if they are well to do, as most of them become, their minds have been set upon acquiring wealth. To most worthwhile people, whatever wealth they have come as a mere incident to the service which they have rendered to the world.

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"So potent is the right attitude of mind in making a living that I will defy anybody with the right attitude of mind to fail to make a living, in the full sense of having a fair measure of money with which to buy material things and those deeper and richer rewards which go with successful accomplishment of effort. The wild scramble for fame and wealth which fills the pages of our daily newspapers is the exception, or such instances would not be in the newspapers. If we could follow the careers of these meteoric persons we would find it all too common that their brief stay in the public eye profited them little and dropped back to the mediocre and unhappy lives to which their attitude of mind had doomed them."

### COMPLIMENTS

of

**C. D. VIA**

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### DUNHAM'S Barber Shop

Try Us Once and  
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regular customers.  
HAIR CUTS - 25c  
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BOOTS  
at  
WILLIAMS  
SHOE STORE  
Quality Shoe  
Rebuilding

Special Low Prices on Fraternity  
STATIONERY  
**SCOTT'S — The Miners' Co-op.**

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## at the movies

### O K AMERICA

This Universal production is the story of a broadcasting newspaper columnist. It deals first with his methods of gathering and publishing copy and later with a kidnapping by gangsters. Lew Ayres out-Winchell's Winchell in this clever show. The story ends in tragedy as the columnist is killed while making a broadcast, but he knew it was coming and took it without a whimper. It's fair entertainment.

### RACKETY RAX

This Fox production is excellent comedy throughout. The story by Joel Sayre is of a gang boss who muscles in on the college football. His press agent convinces him that he can't get cut in on any of the universities gate receipts so he starts a college of his own. Victor McLaglen takes the part of Nucks McGloin. He uses a stable of fighters and wrestlers for his football team and a bunch of chorus girls from his night clubs for a student body and what a student body. Don't miss this show. It's plenty clever.

### CABIN IN THE COTTON

Cabin in the Cotton is a story of the Southland. Richard Bathelme takes the part of the son of a poor plantation tenant who is educated by a rich planter. He turns against his benefactor when he finds that the money used to educate him has been stolen from the poor tenants including his father. The show is a bit of risque in spots. The cast includes Dorothy Jordan, Bette Davis, and Tully Marshall.

### NIGHT MAYOR

Night Mayor is the story of the night life of a fast-stepping mayor of a large metropolis. In Lee Tracy as the Night Mayor one can see a reflection of the colorful Jimmy Walker of little ole New York. It is a fast moving colorful picture with few heavy moments. The wise-cracks are plentiful and passing fair. An excellent cast includes Evelyn Knapp, Eugene Palette and Donald Dillaway. It's good entertainment.

### RED DUST

Red Dust is a story of the tropics. It has a rubber plantation for its setting. Clark Gable and Jean Harlow are co-starred in this picture for the first time. Gable takes the part of an overseer of the rubber plantation and Harlow that of a woman of the streets. She is hard and has a ready supply of good wise cracks.

—MSM—

### ORTON SOCIETY

Continued from Page 1

different crystals are formed.

A. M. Beinlick, vice-president of the society, gave an interesting talk on the history of ceramics.

At the next meeting, which will be held Wednesday, Nov. 30, unless otherwise announced, Doctor Monroe of the Chemistry Department will be the main speaker.

All members are urged to attend the meeting as a business meeting will be held after the program. All interested are invited to attend.

—MSM—

All great artists were men of learning and many were the intellectual giants of their time.—President Llewellyn of the Royal Academy.

## Theta Tau Discusses Bi-monthly Luncheon

Thursday evening Theta Tau held a meeting in the club room of the Metallurgy Building for the purpose of discussing bi-monthly luncheons. A large number of both pledges and active members were present. Last year Theta Tau held luncheons every two weeks at the Edwin Long Hotel and they were quite success-

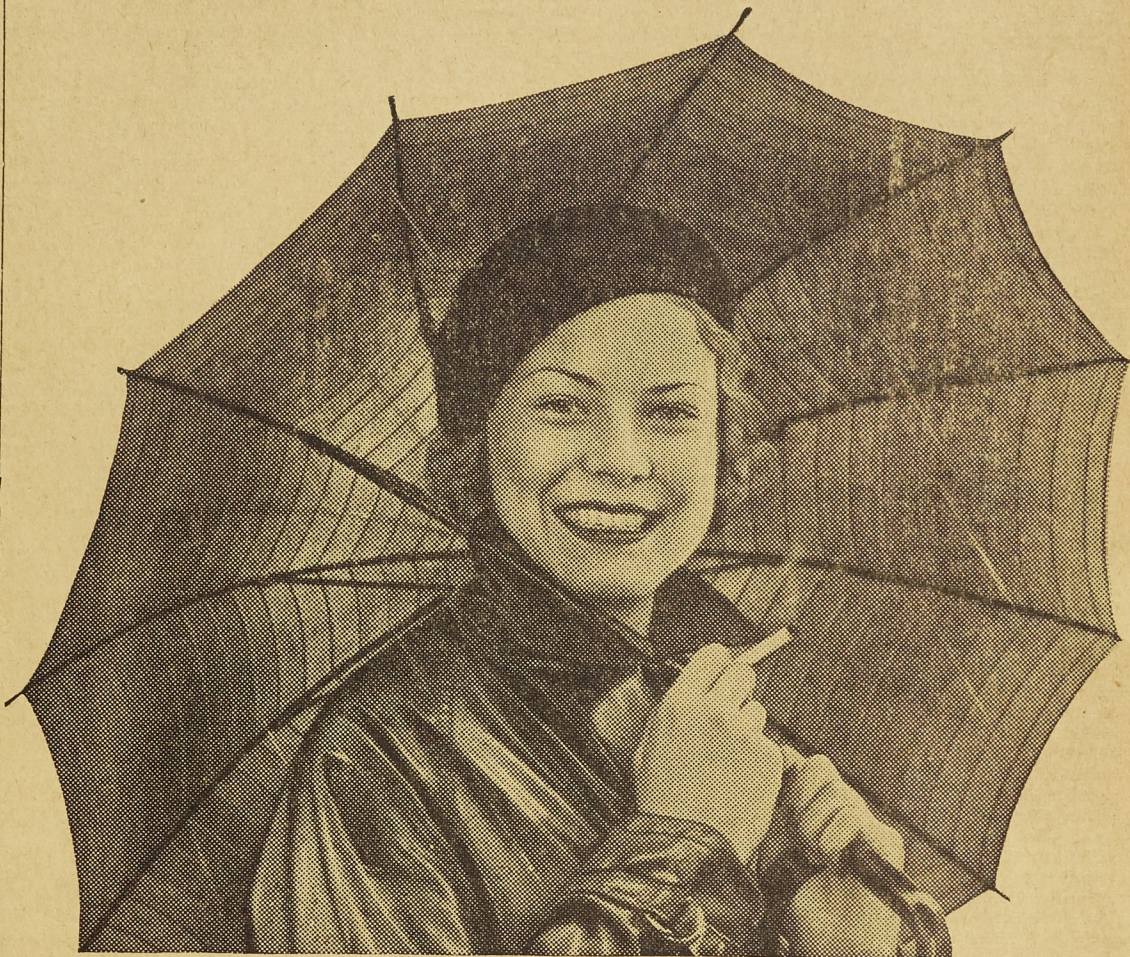
ful in fulfilling their purpose. Again this year the same plan is to be followed and these friendly get-togethers will be held twice a month during the current year. It gives the members an opportunity to meet and discuss various topics of mutual interest and serves to bind them closer together. President Hesse closed the meeting without further business being discussed.

—MSM—

Send the Miner to your enemies.

## Inter-fraternity Dance Chaperones

The chaperons who were invited as guests of the Interfraternity Council for this dance were: Dr. C. H. Fulton, Dr. H. H. Armsby, Prof. and Mrs. Carlton, Dr. and Mrs. Barley, Prof. and Mrs. Dodd, Prof. and Mrs. Lloyd, Prof. and Mrs. Paul, Prof. and Mrs. Millar, Lieut. and Mrs. Hardin, Lieut. and Mrs. Itschner, Dr. and Mrs. Zoellner, Mr. and Mrs. McQueen, Mr. and Mrs. X. Smith, Mr. and Mrs. Love, Mr. and Mrs. Williams, Mr. and Mrs. Joslin, and Mr. and Mrs. McDaniels.



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Chesterfields are milder. They taste better. That's why "They Satisfy."



### THE MISSOURI MINER

A weekly paper published by the students of the Missouri School of Mines and Metallurgy, in the interest of the alumni, students, and faculty.

Editor ..... K. E. Evans  
Sports Editor ..... E. L. MacReynolds  
Business Mgr. .... Thorpe Dresser  
Advertising Mgr. .... Perry Steen  
Circulation Mgr. .... A. R. Oswald

Faculty Advisor .... Dr. J. W. Barley

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### OUR TEAM

The football season has finally drawn to a close and we will now turn our interest to basketball, which will hold the sport spotlight throughout the country for the next several months. But what of the team which just finished its season?

At the opening of the present season despair and downheartedness were the chief moods apparent whenever the Miner team was discussed. It was pointed out by the various wise guys that the team this year was too poor to even compare with those of previous seasons and that we would be lucky indeed to win three games. With such pessimism all about them and with little or no support from the student body as a whole, the Miner team went up against colleges much bigger than they were and either won or went down fighting. For the first time in many years a Miner team defeated the University of Arkansas's Razorbacks. They completely smothered Drury, the ancient arch enemy by both tradition and records. Maryville also felt the effect of a withering attack. And to mention a few of the defeats—Tulsa's coach is reported to have stated that the Miners were the hardest fighting team to face his men this year. In Kirksville the team fought up to the last minute and if the game had but lasted a little longer would probably have emerged the victor. And all this was accomplished in spite of the popular supposition that the team this year was no good.

As we said, football is about over but the men who played so well certainly deserve the appreciation of the entire school.

—MSM—

### THE WORKINGS OF A LIBRARY

(Editor's note: Many students go through this school without becoming acquainted with the workings of the very extensive library we have. Consequently, the following article will prove helpful to those who have difficulty in finding desired references in the library. The article is written on the standard library system, and it applies very aptly to the system used in the M. S. M. library.)

To the uninitiated, the workings of a library are often quite mysterious, but in reality they are orderly and decidedly routine. The backbone of the present library is the card index, and therein lies the tale. By the diligent effort of a Mr. Dewey and others there is a comprehensive filing system for literature of all kinds. This system is based on the decimal, and consequently, is called the "Dewey Decimal System." Each major division of literature is given a number such as Fiction, which belongs in the 800 class, Philology in the 400 class, and so on. Each of these major divisions is further divided into more definite classifications until it is easy for one familiar with the system to hear a number

and immediately classify the book. These numbers are the "call numbers" of the books.

The card-index, besides giving one the call-number of a book, also enables one to find a book by means of its subject, title, or author. For each book in the library there is a card filed under each of the three heads. The card also furnishes, in most instances, a short description of the books, which in working up a bibliography is most helpful.

After one has found the call-number of a book he must then proceed to find the book itself. Going into the stacks, one finds that the books are seemingly arranged according to subject, author and title. This is the result of the classification by the Dewey Decimal System, and as one walks along the stacks of books, the comprehensiveness and simplicity of the system is very deeply impressed. Each book has a place, and each book is in its place.

After the book desired is found and one wishes to take it out of the library, there is a simple rite to perform which consists of taking the receipt-card out of the pocket on the inside of the front cover of the books and signing it. The librarian stamps the due-date on the fly leaf and the patron's worries are at an end. But the story does not end here. The receipt card must be charged against the patron's card and both filed away. Each patron has a card on file on which is his name and address. Each book he borrows is recorded on this card, and the receipt-card filed according to the Dewey Decimal System. If the patron returns the book before the due-date, all well and good, but if he doesn't, then there is more work. The librarian gives the patron one or two days' grace, and then politely forwards a notice by mail of the patron's negligence. The receipt-card is placed in the "over-due" file and a "fine-slip" is made out. This fine-slip gives the card number, the patron's name and address, the call-number, the author, the title, and also the date the book was loaned, the date-due, and the date of notice. The patron is only too glad to get the book off his hands when it costs him two cents a day, so the librarian checks off the book on the patron's card and the receipt-card, and then marks the fine due on the fine slip. The book is then checked out and returned to its proper place in the stacks. It has made the rounds of the typical library book. What could be more simple and routine? yet too many people are lost in the environs of a library.

—MSM—

### Outlining a Real Chemist for You

(Essay by a Japanese schoolboy, crucible.)

"The chemist are wonderful human being. It is found looking like other men, sometimes. Other people such as gentlemen look like honorable chemist, but not so long in face. Long face significant of learned mind.

"Long, white coat which are worn by doctors, bakery men and chemists mean nothing. Such pristine whiteness of chemist coat only keep shirt clean—if have one. Holes made by acid show who chemist and who baker.

"Baker smells like essence of gods, honorable chemist like fumes from Satanic regions.

"All chemists are early liars. They is still numerous prevaricators among freeborne or legitimate chemists.

"The honorable chemist work like beavers, in stink house likened to laboratory.

"Some people fooled by advertising picture of chemist. Real chemist no look longingly through test tube while stand in palatial laboratory. Real chemist is man of great brains, but not look he had any. Laboratory is place of great mess. Odors of bad eggs and colors of many suns everywhere. Evil and smelly smoking pipe droop from lips of perspiring chemist.

"Maybe chemist he pretend he bigger man, keep shirt clean and talk lot, silly world wake up and think him better yet.

"Chemist, he honorable man."—Exchange.

—MSM—

### Art Williams Sets New School Record

Art Williams, who played his last game for the Miners Saturday, has established a new record for the school.

Saturday, Williams completed five seasons on the football squad without missing a single practice session. Handicapped somewhat by his small stature, Art failed to get into a



game during his first year on the squad. During his second year he played in a few games but not enough to be awarded a letter. Every year since then Art has been in the games enough to make his letter.

Playing at half, Art has just completed the best season of his football career. He has shown some marked ability at passing, punting and carrying the ball. He also called signals most of the time when Towse was not in the game.

In commenting on Williams' brilliant record Coach Grant stated that "Art has always shown excellent spirit and willingness no matter what happened. If we could just get a few more like him every year we would soon have a squad that would be hard to beat."

—MSM—

### Amherst Denounces Student Coddling

AMHERST, Mass.—(IP)—Coddling of students was denounced by Amherst College's new lawyer-president last week as he gave his inaugural address to the student body and visiting college presidents.

Students, he said, should be self-reliant by the time they get to college. He continued:

"I would trust them to live from day to day as young men should instead of trying to prepare them for living. I would regard them from the start as young citizens, instead of hoping to train them to be citizens in the future.

"Our American fault as citizens is not our healthy resistance to rules, but our failure in adequate

self-discipline. And so I would in college life place increasing confidence in the student body to live as young men of education should; to observe the conventions of gentlemen; to attain an increasing mastery of self-direction and self-discipline.

"As one necessary step in this direction, my colleagues and I have relaxed the rules for motor cars in Amherst, which were imposed some years ago after a series of tragic accidents. Instead of being completely banned, motor cars will be regarded as a privilege open to any upper classmen in good standing with a scholastic average of 75, if he submits a written request from his parent or guardian."

—MSM—

### HIELSCHER GIFT

(Continued from Page One)

boyhood days, and now he wished to rest in the quiet beauty of those hills and pursue his study. Here he met Professor Cox and their common delight in Geology drew them closely together. He entered the School of Mines as a student, and so glamorous was the field opened up to him that he prolonged his vacation for two years until he took his degree of B. S. in General Science in 1912.

However, twenty years devoted to any science gives a decided bent to the mind, and no sooner had he won his degree than he returned to his practice of medicine to the great joy of his old clientele.

The second break in the order of his life was when war was declared. On the same day he telegraphed the offer of his service to the Secretary of War. His promptness to respond to the call may have had its root in the facts that his father who was an officer in the German army was imprisoned for five years and then sent out of his homeland with instructions to never return on account of his part in the Peasant Uprising in "48-49."

He received his commission as captain in the Medical Corps on June 15, 1917, and shortly after was ordered to Fort Snelling for training and duty.

On March 4, 1918, he embarked for France as medical officer of the 416 R. R. Tel. Bu. and landed on the 24th of the same month. Later he was assigned as surgeon to the Central German Prison Camp at Tours.

From there he was transferred to Dijon as surgeon for the 309 Mechanical Repair Shop Unit, and surgeon in chief for the Overhaul Park in that city. March 29, 1919, he was commissioned as major in the Medical Corps.

Of his two years service, sixteen and a half months were spent in France.

On his return he again took up the practice of medicine in his old home. He was married in 1910 to Dr. Helen Hughes a fellow practitioner in Mankato.

—MSM—

### Leadership Among Students Is Failing

NEW YORK—(IP)—In his annual report to the president, Dean Howard Lee McBain of the schools of political science, pure science and philosophies at Columbia University asserted that the universities of the world, while making progress in the sphere of learning, have failed to produce public leadership and have given little assistance in meeting important economic and political problems of the depression.

"It is manifestly cause for regret," he said, "that in the world's present emergencies so little of light and leading has come out of the world's universities."



## Potash Mining in Southeastern, N. M.

The general geologic similarity between the Permian Salt Basin of Texas and New Mexico to the potash fields of Germany have long suggested the possibility of the presents of potash salts somewhere in that basin. Oil and gas tests had revealed the presents of potash salts in portions of West Texas and in Southeastern New Mexico, however, churn drill cuttings are inadequate for any kind of accurate exploration work of this kind.

The Permian Salt Basin extends generally northeastward from Texas and Southeastern New Mexico through the Panhandle sections of Oklahoma and Texas and crossing Kansas includes a portion of Colorado. So far as known the potash area is concentrated in West Texas and Southeastern New Mexico. This area occupies some 40,000 square miles.

Encouraged by the oil well cuttings showing potash, the government took active interest in this area because of its commercial possibilities and appropriated funds for a five year exploration program. At the present time nearly thirty wells have been drilled in Southeastern New Mexico and in West Texas and one in Kansas and another in Wyoming. In government well number 23, in Eddy County, New Mexico, five feet of Sylvite (Potassium Chloride and salt) running about 30 per cent potassium oxide was reported. This well, at present, is the only government well in which commercial potash has been found.

Before the discovery of Sylvite, it was intended to utilize Polyhalite, a complex sulphate of Potassium and Magnesium which runs low in potash content. The largest beds of Polyhalite were discovered in or near Midland County in West Texas, and for some time it was thought that this area would be the center of potash activity. Polyhalite is indeed the most common of the potash salt group, however, it is not soluble in water and would have to be calcined to separate the soluble potassium sulphate. Some experimental methods for treating polyhalite have been devised. However, since the discovery of Sylvite, polyhalite has no commercial value.

In 1926, the Snodwen McSweeney Oil Co., drilled an oil and gas test in an area known as Twin Hills region, about 24 miles east of Carlsbad, in Eddy County, New Mexico. Cuttings from this well showed the presence of Sylvite, the first Sylvite found in this country. Since no accurate work of this kind could be done with a cable tool, this company obtained a permit and core drilled their first potash test. This test revealed the fact that there was a commercial bed of Sylvite about seven hundred feet below the surface. At this time the American Potash Company was formed and they drilled some fifteen tests in this area.

In these tests it was found that correlation between wells showed the uniformity of the underlying beds. The beds lie with a very small dip or rise, usually about two or three feet in one hundred. Logs of wells to be drilled in this area can be made with surprising accuracy before the holes are drilled, however, this is only true of the immediate area, some four or five square miles. It is seldom found that a bed of potash will pinch out over a short distance, they usually taper and thin out. In the case of Polyhalite beds, they will often change entirely to a Anhydrite over a short distance, but remain uniformly the same bed. If potash is discovered, and in

such a quantity as is known to be "proven potash ground" the concern interested may, with the government's permission, sink a shaft and take steps toward development provided they can show sufficient financial backing. It is the custom for individuals to apply for drilling permits for a concern who in turn grants them royalties for potash mined on their permit. All permits are subjected to consideration by the government.

After the permit is granted an application for "notice of intention to drill" is made and accepted by the government, drilling commences and the hole is usually "fish tailed" to the top of the salt bed. The top of this bed is usually from 450 to 1200 feet in this locality. If water is encountered in the red beds above the salt, it must be shut off with casing. When the salt is encountered a corer barrel is set up which is usually capable of taking fourteen feet of core in one run. The standard core size is two and one half inches in diameter for use in this work.

As mentioned before, pure water cannot be used for drilling, as it dissolves the salt and would carry the more soluble potash salts into solution. To remedy this, a saturated solution of Potassium, Magnesium and Sodium salts are used. A large tank of water is heated on the drilling location and salt added until saturation is reached. This solution is circulated during drilling, and more salt added from time to time depending upon the nature of the salt being cored. Carnallite is extremely soluble. In order to take a good core the solution must be well saturated with magnesium salt, usually Magnesium Chloride.

The core is taken from the barrel and placed in boxes which hold twenty-five feet of core per box. A temporary log is made in the field. A more complete log of the drilling operations is made after the core can be more closely examined.

Drilling continues until a sufficient depth below the potash horizon is reached. A "notice of intention to abandon drilling" is filed with the government, and plugging operations begin. Wooden plugs are set at intervals determined by the government, and at the top of the salt bed a large concrete plug is set to insure safety against water leaking into the abandoned hole. The upper portion is filled with mud and solution and at the surface a piece of casing is set in concrete and capped by the government. The cap gives the name of the test and the depth reached.

In several tests in this area pockets of gas have been encountered, none of which proved serious. The pockets were usually encountered in shale or rotten salt. The pressure is usually great enough to blow all the solution out of the hole, and drilling operations would have to be suspended until the gas had blown itself out. In some instances the gas blew for several weeks before "blowing out." Analysis of this gas showed it to be mostly rotten air, and in some cases a little methane was present.

In 1929, the United States Potash Company sunk a four compartment shaft to the depth of 1056 feet. The company is now mining Sylvite at their lowest level, 950 feet which is known as number 4 bed. This bed runs about 25 to 30 per cent potassium oxide content and is mined, crushed and shipped as manure salt to the fertilizer concerns over the country. Last September the refinery went into operation which enables the company to produce refined product known as "Murate." The capacity of the mine is 650 tons per day, while the present refining unit

will handle 150 tons of the refined material.

There are at present four members of this company who are Rolla graduates, Mr. V. H. McNutt who is not an active member of this company, but was in charge of drilling operations when the potash discovery was made; Mr. C. A. Pierce, mine superintendent; Mr. P. D. Kern, geologist; and Jim Richardson, who graduated last spring.

There is enough potash in this field to supply the needs of this

country for many decades to come. This discovery makes the United States independent from Germany for her potash supply. The bulk of potash is now used for fertilizer, however a good part of the refined material is used in industrial chemistry.

—MSM—

California produces vast quantities of minerals. Other products are grapes and letters from Hollywood asking the old folks for fare home. —W. P. Rowley.

*Something  
for pipe smokers to  
think about!*

ABOUT 1864,  
farmers began to grow White  
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**FOOTBALL**  
Continued from Page 1

ball to their own 29 yard line. Fail to gain on one play at the line and punt to Miners 40 yard line. Williams fumbles slippery ball, and St. Viator recovers on the forty yard line. In three line plays the Irish gain only one yard. St. Viator punts, and again a Miner back fumbles and St. Viator again recovers on the Miner 19 yard line. St. Viator fails to gain and Miners take ball on downs.

Kirchoff punts to St. Viator 45 yard line. After two line plays with no gain, Murgatroyd punts to the Miner 28 yard line. Kirchoff gets one yard at the line and then punts to the St. Viator 23 yard line. Murgatroyd gets 5 yards in two attempts and then punts to the Miner's 41 yard line. Miners ball on their own 41 yard line. MacDonald, on a beautiful play, cut thru the St. Viator line and took the ball down to the St. Viator 39 yard line. It was a 20 yard gain and the Miners' first down. In three attempts the Miners got 4 yards through the St. Viator line. St. Viator penalized five yards for off-sides, and Williams gets first down on St. Viators 26 yard line. MacDonald gets 9 yards at tackle, and Williams makes it first down on the St. Viator 12 yard line.

Williams gets three yards on a line play. McDonald hits line for no gain, as the Miner line fails to hold. Miner line not holding and St. Viator men come through and throw Williams for 5 yard loss. End of the first quarter. St. Viator, 0; Miners, 0.

**Second Quarter**

Schwab fails to gain and St. Viator takes the ball on their own 20 yard line. St. Viator loses 5 yards in two tries and punts to the Miner 47 yard line. Miners' ball on own 47 yard line. William goes off tackle for 10 yards and a first down. St. Viator penalized 15 yards for holding. Miners ball on St. Viators 27 yard line. MacDonald carries ball for no gain. In two tries Williams gets first down on the St. Viator 13 yard line. Again the Miners lacked the final punch to put over a touchdown, and the ball is taken by St. Viator on their own 23 yard line. Murgatroyd gets off a wonderful punt which rolls all the way to the Miner 12 yard line. Miners penalized on first play and it's Miners' ball on their own 1 yard line.

Kirchoff punts to the Miner 29 yard line. On two line plays and a pass St. Viator gets first down on the Miner 14 yard line. St. Viator fails to gain at the line in two plays, and then pass incomplete over goal line. Miners' ball on own 20 yard line. Miners fail to gain at the line, and Kirchoff punts to the Miner 44 yard line. St. Viator fails to gain in three attempts, and also fails to kick on the fourth down. Miner's ball on their own 49 yard line. McGregor hits line for no gain. Howerton loses 2 yards and punts to the St. Viator 29 yard line. St. Viator hits line for no gain as half ends. St. Viator, 0; Miners, 0.

**Second Half**

Miners defend west goal and kick-

off to St. Viator. Westray returns to the St. Viator 30 yard line. Murgatroyd punts to Miners 44 yard line. Miners lose ball on downs. St. Viators ball on their own 47 yard line. St. Viator fails to gain and punt to Miner 22 yard line. Towse gets one yard at center, and Kirchoff punts to the Miner 46 yard line. Murgatroyd gets through Miner line for first down on the Miner 35 yard line. St. Viator fails to gain on three plays and punt to the Miner 15 yard line. Towse hits line for no gain. MacDonald fumbles muddy ball and recovers on the 9 yard line. Kirchoff punts to the Miner 37 yard line. St. Viator hits line for one yard, and then pass incomplete. Murgatroyd punts out of bounds on the Miner 4 yard line. Towse gets two yards in two attempts at the line. Kirchoff punts to Miners' 27 yard line.

St. Viator loses 3 yards in two end runs. St. Viator fumbles and Gibson recovers for the Miners on the Miner 35 yard line. MacDonald hits line for 2 yards. Towse gets 5 yards in two tries. End of third quarter.

**Fourth Quarter**

Miners' ball on own 43 yard line. On an attempted punt the ball gets away from Kirchoff, and it's St. Viator's ball on the Miner 39 yard line. St. Viator penalized 15 yards for holding. Murgatroyd punts, but ball is called back and St. Viator is penalized 15 yards. St. Viator again punts, but ball is again called back as both teams were off sides.

St. Viator punts to Miner 36 yard line. Williams gets 2 yards through line. Miners penalized 5 yards. Williams gets 5 yards off tackle. Kirchoff punts to St. Viator 38 yard line. St. Viator gets one yard at the line, and then complete pass for 4 yard gain. Punt to Miners 25 yard line. Miners' ball on own 25 yard line. Miners fail to gain and Kirchoff punts to mid-field. St. Viator fumbles and Miners recover on their own 48 yard line. MacDonald gets 6 yards through line. Williams hits line for no gain. Miners fumble and St. Viator recovers on their own 49 yard line. St. Viator gets 7 yards at the line in two attempts. St. Viator penalized 15 yards, and punt to the St. Viator 48 yard line. Williams and MacDonald fail to gain at line. Kirchoff punts and St. Viator returns to their own 39 yard line. Miners recover fumble, and Kirchoff punts to St. Viator 29 yard line. St. Viator hits the line for no gain as game ends. St. Viator, 0; Miners, 0.

Yards from scrimmage—Miners, 113; St. Viator, 50. Passes—Miners, 1 incomplete; St. Viator, attempted 5, completed one for 14 yards. First down—Miners, 5; St. Viator, 2. Penalties—Miners, 2 for 20 yards; St.

Viator, 7 for 75 yards.

**Starting Line-up**

ST. VIATOR	LE	MINERS
Gibbons	LE	Kirchoff
Kelly	LT	Hassler
Hunt	LG	Oswald
Meany	C	P. MacDonald
Atkins	RG	Hardaway
Turner	RT	Gibson
Bomba	RE	I. Spotti
Laffey	QB	Williams
Murgatroyd	LH	Schwab
Corcoran	RH	J. MacDonald
Kasner	FB	Wommack

**Summary**

MSM

**Dr. Dake Talks to Tau Beta Pi**

On Tuesday night, Nov. 15, members and pledges of Tau Beta Pi assembled in the Metallurgy Building, and enjoyed an informal talk by Dr. Dake, professor of Geology. Dr. Dake spoke of the benefits of concentrated and efficient study, and told of some methods by which the mastering of a subject might be accomplished. He continued by pointing out the effect of efficient study in meeting the intense competition which engineers will encounter when they leave school, especially as regards the present prevailing economic conditions. In line with this idea, his talk naturally turned to the advisability of students pursuing graduate work in case they failed to land jobs. Dr. Dake concluded his talk by some appropriate remarks relative to the type and location of the school chosen for graduate work, pointing out that a student will generally benefit most by doing his graduate work at a school other than the one where he spent his under-graduate days.

Some discussion followed this talk, faculty members and students alike taking part in commenting and venturing opinions. The loquacity of those present finally diminished to the extent where it was advisable to adjourn the meeting. It is hoped that Tau Beta Pi may enjoy more such meetings in the future.

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**ASH TRAYS—BOOK ENDS—WATCH CHARMS**

**A New Line and Attractive.**

**Rollamo Theatre  
PROGRAM**

**Rolla, Missouri**

**THURSDAY & FRIDAY**

**Nov. 24 & 25**

Kay Francis, Miriam Hopkins and Herbert Marshall in

**"Trouble in Paradise"**

Also "Selling Shorts" Comedy

**SATURDAY, Nov. 26**

**MATINEE & NIGHT**

**2:00—7:15—9:00**

**LEW AYRES in**

**"Okay America"**

Also "Sho Me" Comedy and "Barnyard Olympic" cartoon  
**SATURDAY MATINEE ONLY  
"LIGHTNING WARRIOR"**

**SUNDAY, Nov. 27**

**MATINEE & NIGHT**

**2:30—7:15—9:00**

Victor McLaglan, Greta Nissen in

**"Rackety Rax"**

Racketeers get into the football business and—what a laugh it is!  
Also "King Salmon," "Puppy Love" a Flip Frog and News

**MONDAY & TUESDAY**

**Nov. 28 & 29**

Richard Barthelmess and Bette Davis in

**"Cabin in the Cotton"**

Do you remember "Tol'able David"?  
Also "You Call It Madness" and "Hollywood on Parade"

**WEDNESDAY, Nov. 30**

Lee Tracy and Evalyn Knapp in

**"The Night Mayor"**

Also News and "Patents Pending" comedy

**Bargain Night—Two for price of one.**

**THURSDAY & FRIDAY**

**Dec. 1 & 2**

Clark Gable and Jean Harlow in

**"Red Dust"**

What a picture! What a picture!

**JIM PIRTLE**

**WATCHMAKER & JEWELER**

**Fine Repair Work a Specialty**

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**MEET 'EM AT**

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**OLD RELIABLE**



## THRU THE TRANSIT

By Pin, Who Hates Such Slushy Cold Weather But Is a Demon Snow-baller in Spite of That.

At last our great and magnificent contest for the grand old exalted title of Kampus King has ended (Ed. Note: Thank God.) and we are able to announce the fortunate victor. The lucky man is none other than the Miners own great crooner, Rudy Maehl, who succeeded in being elected by a landslide. And now for the part that we regret to announce. The gold plated gabboon, which was to be the grand prize, has not as yet been swiped by Axe, who is an old loafer, no less. But we hope to have the award before the beginning of tobacco chewing season.

The newly elected candidate has not been interviewed as yet, but we are certain that he must have been elected on a platform of beer and prosperity. Everyone else has won on the same platform. Anyway, it sounds good. Any number of votes were cast, therefore the balloting may be said to have been quite heavy. The above is our own clever deduction. But at least the contest is over and now we will have to divert our abilities (Ed. Note: What abilities?) in other channels to secure another scoop for this column.

Guess football results and get your name in print. This column will print the names of the three most expert guessers on the winners of the following games. Turn your ideas in to the Miner box. These are for Thanksgiving day games:

N. Y. U. vs. Carnegie Tech.  
Penn. vs. Cornell  
St. Louis vs. Washington  
Texas Aggies vs. Texas U.  
Alabama vs. Vanderbilt  
Arkansas U. vs. Centenary  
U. S. C. vs. U. of Washington  
Kentucky vs. Tennessee  
Missouri vs. Nebraska  
Pittsburgh vs. Penn. State

At last our Indian Summer seems to have deserted us and we are now in the icy grips of Old Man Winter. When such a blizzard as the one received here last Tuesday descends upon a place, it is time for sheepskins and red flannels. But then it is rather nice to have some change of season. Just so this thing doesn't persist too long.

The first bob-sled party was held last week by the Pi K. A's. and from all reports the affair was a big success. At least everyone was spilled several times and the bob-sled is still quite safe and sound. Max McCrory contributed his services and drove the car that pulled the sled, the big pansy (no, not the sled. Max is the pansy), and Bob Weigel demonstrated his ability at guiding the darn thing.

After snooping about practically in hiding from Bennie Gross all week we are all worn out. It seems that Bennie took exception to the fact that he was called Grossburg in this column. Pardon us, Bennie, it was a misprint. We really wrote Grossbaum. And now that that's over with does anyone know where we can hide out for another week.

We have heard that P. I. Murray has been quite sick. Accept our condolences and our wishes for a rapid recovery, P. I., as you are most excellent copy at times.

And observations about the school disclosed: A snow covered campus dazzling in its whiteness. The football field covered with slush.

That great Miner team work-

ing out in spite of the rotten weather. The basement of Parker Hall too cold to have classes there.

Pinkley wearing the lousiest looking hat in town, bar none.

Boots and breeches as the prevailing mode of dress. Football programs being given away by Satyrs, who are becoming quite active.

Grades in the office, and much wailing and gnashing of teeth, and also a few faint sighs of relief—safe for another few months. Phi Kappa Phi pledges appearing at the mass meeting to receive the coveted ribbon.

Two girls being elected to membership in the grand old organization. Football season over—how we shall miss it. Basketball getting under way to supercede football.

Quite a large number of men out for the team. The absence of that towering Jenkins of last years team. Dutch Tittle also among those noticeably missing from the court this season—etc., until Mechanics does call very strongly.

That 210 pound center of St. Viator's was sure heated up some last Saturday despite the fact the game was played in ice water. Maybe Pete MacDonald shoving his face in the mud didn't help his temper. At any rate he was looking for blood when he came out of the game and again the innocent bystander suffered. He hung a nice one on Dick Taylor without any warning whatsoever. Maybe he was just trying to live up to his name. The ole "Meany."

The "Whatta Schnozzle" Club has been organized on this campus. It's membership includes Billy Neel, Benny Gross, Al Jurvic, Elmer Kirchoff, Ken Sheckler, and Kherr. In the competition for Chief Grand Exalted Schnozzle, Kirchoff won by a fraction of an inch. Billy Neel was second and Sheckler was appointed to the post of custodian of the Grand Handkerchief.

(Editor's Note:) Due to some oversight on the part of Pin some of the news of the election of the Kampus King was omitted. Dave Hale and Jack Willhite tied for second place. Their names were inadvertently left off the ballots, but a last minute write-in vote gave them just one less vote than Mahle received. We were unable to reach them to find whether they would demand a recount.

### Bronson Addresses A.I.E.E. Organization

The American Institute of Electrical Engineers held a meeting last Tuesday evening.

The chairman, Doug Martin opened the meeting and introduced the first speaker, Raymond Borchert. He gave a very interesting talk on the historical Pearl Street Generating Station.

The next speaker was J. B. Bronson, of the Rolla branch of the Missouri Utility Co. He introduced his talk with a discussion on the possibilities of securing work in the electrical field after graduation. He then spoke on the material used in the construction and maintenance of transmission and distribution of power lines. He exhibited specimens of the materials used in this field. The students were very attentive, which showed the excellence of the discussion.

Prof. Lovett then presented the plaque which Doug Martin won at the student conference at Oklahoma University.

The meeting was brought to a fitting close after the serving of refreshments by Mrs. Lovett.

—MSM—

Business conducted solely with a view to gain is something of a rather low order.—Dr. N. M. Butler.



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Now it's an extravagance not to have your clothes dry-cleaned. The Busy Bee Prices are astonishingly low. And the Busy Bee methods and results . . . Low prices notwithstanding . . . Are as SUPERIOR as they have always been.

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*"Nature in the Raw  
is seldom MILD"*

#### THE PILGRIM'S FIRST WINTER

"Nature in the Raw"—as portrayed by Herbert Roese, celebrated painter... inspired by the bitter hardships endured by America's first settlers in their conflict with raw, wild nature (1620). "Nature in the Raw is Seldom Mild"—and raw tobaccos have no place in cigarettes.

## No raw tobaccos in Luckies —that's why they're so mild



Copy, 1932.  
The American  
Tobacco Co.

**W**E buy the finest, the very finest tobaccos in all the world—but that does not explain why folks everywhere regard Lucky Strike as the mildest cigarette. The fact is, we never overlook the truth that "Nature in the Raw is Seldom Mild"—so these fine tobaccos, after proper

aging and mellowing, are then given the benefit of that Lucky Strike purifying process, described by the words—"It's toasted". That's why folks in every city, town and hamlet say that Luckies are such mild cigarettes.

**"It's toasted"**  
That package of mild Luckies

VOLUME

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