



24 Oct 1933

The Missouri Miner, October 24, 1933

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THE MISSOURI MINER

MISSOURI SCHOOL OF MINES AND METALLURGY

VOLUME XX

ROLLA, MO., TUESDAY, OCTOBER 24, 1933

NUMBER 6

J. C. COLLET GIVES TALK

Report Is Stressed

Chairman of the Missouri Public Service Commission Outlines Work Before Six School Groups, Faculty Members and Others

And the engineer-lawyer dispute is still not settled! Last Wednesday evening, the Hon. J. C. Collet, Chairman of the Missouri Public Service Commission, spoke to the joint assembly of the members of the major professional societies of the School of Mines. Mr. Collet, a lawyer of outstanding merit, said that he has tried hard but, as yet, could not reconcile himself to engineers. That was beside the point, however, in the very interesting discussion which followed concerning the work of the commission.

Mr. Collet revealed that approximately half of the staff of the commission comprises engineers of every field. Their work consists mainly of evaluation by observation and survey. It is also the work of the engineers to determine other factors that enter into the rate establishment for public utilities.

The methods used in rate establishment and the problems involved in such work were very clearly explained by Mr. Collet. The audience seemed very interested in the lecture, which might be caused by the fact that very few, if any, of those present knew what the work of the commission was, and how it went about accomplishing its various tasks.

Mr. Collet brought out one fact which certain members of the faculty have stressed for some time, and that was the importance of the report by the engineer. Not only must the report contain the facts necessary, but it must be in order. Court decisions have frequently caused the commission to reconstruct an entire case on the failure of a report to measure up to the standards set by law.

Many light comments ran through the talk which lent it a sparkle that was pleasing.

Mr. Collet, accompanied by Bob Holloway, secretary of the commission, was the guest of Prof. Orten. We hope that speakers of equal caliber and appeal will make frequent visits to our campus.

Dr. S. R. B. Cooke Weds Pittsburgh Girl

Dr. S. R. B. Cooke surprised his brothers at Kappa Sigma house on his arrival Monday morning with news of his marriage to Miss Helen Ruth Cahill while in Pittsburg, Pa., last week.

The ceremony took place October 14 at the residence of Rev. William J. Reid of the First United Presbyterian Church in Pittsburg.

Mrs. Cooke, who is a graduate of Carnegie Institute of Technology, will remain for the present in the home of her mother, Mrs. A. M. Cahill, at Ben Avon, Pa.

—MSM—

R. O. T. C. UNIT IS ORGANIZED

Officers Appointed

22 Seniors and 18 Juniors Take Advanced Course Work; Entire Group This Year Smaller Than in 1932

Permanent appointments of officers were made last week and the R. O. T. C. unit is now completely organized. The unit this year is much smaller and this necessitated having only two companies in addition to the band and colors. In the two companies the sophomores constitute the front rank and the freshmen the rear rank. Instead of making assignments by sections the basic course men were assigned by height, A Company drawing the tallest.

About eighteen Juniors are enrolled under Lieut. Itschner in the Advanced Course, and some twenty-two seniors are taking Advanced Military. Lieut. Hardin has also made several changes this year. At parades the staff, company commanders, and the lieutenants commanding platoons all carry sabers. First Lieutenants were appointed this year in the two companies to act as second-in-command and the ceremony of Officers Center has been changed to include all of those having a command. The remainder of the seniors are assigned as "roving lieutenants" and are in the reviewing line at parades.

The uniforms for the juniors have not arrived as yet but the corps

(See R. O. T. C., page 6)

M. S. M. Football Schedule for 1933

Oct. 6, Arkansas Tech, 26; Miners, 0.
Oct. 14: Miners, 7; McKendree, 6
Oct. 21, (Open Date).
Oct. 27, Springfield Teachers, Rolla.
Nov. 4, Ottawa University, Rolla.
Nov. 10, St. Louis University, St. Louis.
Nov. 17, Kirksville Teachers, Rolla.
Nov. 24, Maryville Teachers, Rolla.

METALLURGY TRIP ENJOYED

Students Visit Fair

Ten Senior Metallurgists, Chaperoned by Prof. C. Y. Clayton, Make Industrial Tours of Chicago

When the Frisco's 8:30 train, which arrives in Rolla at 9:15, pulled into the station on Friday night, Oct. 6, the ten senior metallurgists, chaperoned by Prof. Boots Clayton, embarked for a week in Chicago in search of practical metallurgical knowledge. The party spent Saturday and Sunday in seeing the World's Fair and began the industrial trips on Monday.

On the first day of the trip a visit was paid to International Lead in East Chicago, Ind., and all phases of lead refining were investigated. Three Rolla graduates are now employed at the plant and the trip was conducted by them. In addition to lead refining, some time was spent in seeing the zinc oxide plant. After having lunch at the plant, the party then proceeded to visit the Hubbard Foundry Company, where another M. S. M. man is employed. At this plant a good knowledge of how metal rolls are made was obtained.

Tuesday developed into a day of real work in that an attempt was made to see the entire plant of the South Works of the Illinois Steel Company in South Chicago. The plant covers an immense area and is one of the largest in the country. Visits were made to all parts of the

(See METALLURGISTS, page 6)

HOMECOMING PLANS MADE

Dance to Be Nov. 4

Rolla Junior Club to Cooperate With the Alumni Association in Annual Ball; Part of Proceeds Go to Charity

When the Miner spruces up and drags his best gal Jackling Gym way to the Homecoming Ball Nov. 4, he undoubtedly will be happy under the stimuli of the soft lights and sweet music of the year's vastest event, St. Pat's excluded. Unbeknownst to him, a lot of poor kids "across the tracks" will be made happy by this same event.

M. S. M.'s Alumni Association has consented to cooperate with the Rolla Junior Club this year in giving the dance; this means that a part of the proceeds will go to the Club's counting-room to swell the funds which are used entirely to buy clothing needs of school children who otherwise would be unable to attend school.

Miners from years past know that when the Junior Clubbers get hold of anything, fur and feathers fly, and something good comes out of the melee. This year's Homecoming will be enhanced by a floor show and—well, wait until next week.

—MSM—

Rolla Visitor Praises Town and M. S. M.

An interesting account of a trip taken to Rolla, by Miss Schrodli, several Sundays ago, was received by the school in a copy of the Belleville (Ill.) Daily News-Democrat several days ago.

This was Miss Schrodli's first visit to the school and she was impressed very much by the earnestness of the student body, and the atmosphere prevailing around the school.

Miss Schrodli visited all the buildings on the campus and wanted to see the school mine, but was unable to do so.

Miss Schrodli was the guest of Alan MacEwan, official photographer for the Rollamo and we hope she enjoyed her visit as much as we enjoyed having her.

—MSM—

The Mets who were at the Fair say that they ought to change the name of that beer joint they were in to the Belching Village.

THE MISSOURI MINER



Official Publication by the Students of the
MISSOURI SCHOOL OF MINES AND METALLURGY,
in the Interest of the Alumni, Students and Faculty.

Published every Tuesday during the college year.

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FACULTY ADVISER DR. J. W. BARLEY

Entered as second class matter April 2, 1915, at the post office at Rolla, Mo., under the Act of March 3, 1879.

Subscription price: Domestic, \$1.50 per year; Foreign, \$2.00; Single copy 8c

THAT MILLION DOLLAR FUND

Somewhat belated, but still timely, we discovered an article concerning the proposed bill to be submitted to the State Legislature during the present meeting by Col. Hugh Miller, public works engineer.

The interesting point about the bill is that it provides for a fund of a million dollars to be used in erecting new buildings and rehabilitating old ones on the School of Mines campus. Now that is the nicest piece of news we have heard in a long time, for if the school needs anything besides students, at the present time, it certainly needs buildings. One doesn't even have to look at Mechanical Hall to see that we need a new building for its treasures. Just listen to the mechanicals gripe. Then, there is the Chemistry building. It got its start soon after the school was established, and one more face lifting or rejuvenation operation would likely be too much for the sad-faced original. Norwood looks well enough, but one can't always judge age by appearance. The Metallurgy building, too, needs the same improvement that Norwood does. They have both been decided fire hazards for a long time. The hazard, of course, being limited to the equipment each houses.

Only two buildings, Parker and Mines, are really fire-proof and up-to-date, and they are woefully overcrowded.

It is not necessary to ask, "Do we need a million?"; it is apparent. Now if everyone would get behind his legislator and urge that this bill, or part of it, be passed, maybe the class of '40 would be able to look proudly at our campus and say, "Some school, eh Boss?"

Et Sic Transit

By G. Montgomery

Soup for the Nerts

"Sound yor A, brothers — and only two crackers for the pledges!"

For it is soup day at the I Phelta Thi House and all the boys arrive resplendent in their old hunting costumes. For clothes get no consideration in the struggle for imbibing this eternal enigma—fraternity house soup. (*Interruption — Herr Ratliff is wont to call this "paralax").

Regulations broken only on pain of being kicked out of a senior council or something, are as follows: (1) Keep one foot on the floor. (2) Don't sit in your neighbor's soup plate. (3) No hydraulic suction devices, motor whistles or pipe organ attachments allowed. (4) Don't dunk your neighbor if temperature of soup exceeds 100° C. (5) And empty plates must not be hurled at the waiter.

After a first month's research about this hyar campus several outstanding soupmen have emerged to irritate the public eye with their throaty and tuneless gurglings.

We have Austin (Joe Gulpem) Daily, who can scoop soup with his feet and work physics problems simultaneously.

There is Fred (Soup Sousa) Klee, who has mastered six band marches with the aid of three sizes of ladles, a beer bucket and the Lambda Chi bath tub.

And now Goat (Gurgling Guisepe) Haffner, who waves in pride the Mercier colors and can consume soup while in every conceivable po-

sition including four in the bathroom alone—and you should be able to think up some more.

Truly a trio of triumphant trenchermen. Men like these will carry on the Miner traditions and syphon their soupy symphonies in the ritziest jerns extant. When soup still dribbles from their hoary beards they shall call no man their soup-errior.

ALUMNI NEWS

The Rolla section of the Alumni Association held a meeting last Wednesday, Oct. 18, to make plans for this year's Homecoming. Officers for the coming term were also elected; Dexter Followill was elected chairman and E. K. Schuman as secretary.

Dwight L. Moodie, '24, paid a visit here last Tuesday. Moodie is employed by A. K. Howell & Co., manufacturers of power plant equipment, in St. Louis.

Nickolas L. Kozlinsky, '28, stopped in Rolla last week. Kozlinsky came from Russia to attend school here and only recently has become an American citizen. He is located with a company in New Mexico.

R. E. Hilpert, '27, returned to Rolla to attend the first home football game of the season. He is now working with W. C. McBride Incorporated Oil Co., situated in St. Louis.

S. E. Gladden, '28, and Karl Al-leback, '28, spent the week-end in Rolla, attending the football game.

H. R. Kilpatrick, '28, stopped for a short visit in Rolla, on his way from Chicago to Springfield.

Springfield Club to Be Here in February

Springfield Teachers' Glee Club will come here for a concert some time in February, according to a letter received by Noel Hubbard from them.

A reciprocal program, in which the M. S. M. Glee Club, not yet organized, will give a return concert there next spring, is asked. No definite date has been set for the concert here, but it will occupy one of the general lectures dates in February, Mr. Hubbard said.

When the Teachers' glee club gave their concert here year before last, the Miners, who seem to pride themselves on their thick-skinned resistance to appreciation of the musical arts, waxed highly enthusiastic. Wherever the word is told that Springfield Teachers may come up, students are in a most favorable attitude about the concert . . . and since generous bunches of girls have been coming down from Columbia and Jeff City of late, the boys must favor something besides the women-folk of the ensemble.

Then there's the popular flapper who sang, "Oh, Give Me Something to Remember You By," and ten fellows walked out with tears in their eyes.

Rollamo Theatre

ROLLA, MISSOURI
Program

WEDNESDAY, October 25
BARGAIN NIGHT

The Big Brain

with George E. Stone, Phillips Holmes and Fay Wray

ALSO

"A Yarn of Wool," Bosco Cartoon News

Prices, 10c and 25c,
Two for 10c and 35c

THURSDAY and FRIDAY
October 26 - 27

Too Much Harmony

with Bing Crosby, Jack Oakie, Skeets Gallagher, Judith Allen, Lilyan Tashman, Harry Green and Ned Sparks

ALSO

"The Kid From Borneo"
with OUR GANG

Prices, 10c and 35c

SATURDAY, October 28
MATINEE and NIGHT

The Man Who Dared

with Preston Foster, Zita Johann, and Joan Marsh

ALSO

Louise Fazenda in "Stung Again"
Technocracked (Flip Frog Cartoon)

Matinee, 5c and 15c
Night, 10c and 25c
Shows 2:00—7:15—9:00

SPECIAL MIDNIGHT SHOW
Saturday, October 28, 11 p. m.
What Price Innocence

with Willard Mack, Minna Gombell, and Bryant Washburn

ALSO

Selected Short Subjects
Price 25c Children not admitted
St Pat's Benefit Show

SUNDAY, October 29
MATINEE and NIGHT

The Devil's in Love

with Victor Jory, Loretta Young, David Manners, Vivienne Osborne, and Herbert Mundin

ALSO

"Bosco, the Musketeer"
"Around the World" and News
Prices, 10c and 25c
Shows 2:30—7:15—9:00

MONDAY and TUESDAY
October 30 - 31

The Bowery

with Wallace Beery, Jackie Cooper, George Raft, Fay Wray and Pert Kelton

ALSO

Along Came Ruth with Ruth Etting
SCREEN SOUVENIR
Prices, 10c and 35c

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Bring us more of your used Text Books to sell or exchange—AT
SCOTTS DRUG STORE

OLE STUFF

15 Years Ago This Week

A football game was canceled by State health officials. An epidemic of Spanish influenza broke out.

The freshman class exceeded half the total enrollment of the school.

Lieut. Malcolm B. Magers was detailed to the Missouri School of Mines as rifle instructor in the S. A. T. C.

♦♦♦♦

10 Years Ago This Week

Miners lost to Drake 54 to 0. Outplayed but not outfought, outclassed but not outgamed, the Miners were forced to bow to a superior brand of football.

A new organization called the "Castle" was formed by the advanced members of the R. O. T. C. who are interested in Military Engineering.

A terrace was built between Parker Hall and the Bureau of Mines building for the use of a parking space for automobiles.

♦♦♦♦

5 Years Ago This Week

Miners bury McKendree College by the score of 19-0. The team playing like veterans, steadily, aggressively, and fighting, had an easy victory.

The seniors of the A. S. C. E. society attended a banquet at St. Louis given by the Engineers Club.

Intramural sports were reorganized by Coach Brown and Doc Armsby. Sports such as basketball, volleyball, baseball, golf and tennis were to be developed.

—MSM—

Local Tau Beta Pi at Alumni Meeting

More alumni of M. S. M. chapter of Tau Beta Pi were present at the Chicago national convention than from any other chapter in the country, reports T. G. LaFollette, president of the local chapter of the honorary fraternity. He returned last Sunday with Doug Martin, who accompanied him to the convention. The meet was held October 12 to 14 in the Knickerbocker Hotel and the rest of the time they spent attending the Century of Progress Exposition.

Old Miner Tau Betas they met include A. N. Detweiler, '10, who is now a chemist for the Goldsmith Smelting and Refining Company; R. A. Lindgren, '23, with the Wisconsin steel works of International Harvester; E. Gammeter, metallurgist for Edison General Electric Appliance Company; I. W. Friedman, chemist with International Harvester, and Dr. Dorsey Lyon, a former M. S. M. post-graduate student, now on the faculty of University of Utah.

The hundred delegates and visitors present represented all 65 chapters.

—MSM—

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FINE REPAIR WORK A
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37 years' Experience . . .
27 years in Rolla . . .

Freshmen of Pi K. A. Honored by Dance

Friday night, Oct. 20, the members of Pi Kappa Alpha entertained with a dance for their pledges at the chapter house. The pledges that were so honored are as follows: Beckly Holtman, Bob Lange, Pete Silver, Jim Weaver, Ed Gould, "Sonny" Nations, Pete Badame, "Ossie"

Holman, Tom Baxter, Dick Love and Harold Harmon.

Departing from custom, the dance started promptly at nine o'clock and closed around 12:30 in the morning. An outstanding feature of the dance was the galaxy of out-of-town dates that were in attendance, some twenty-four or more beauties being imported for the occasion.

There were a number of townspeople present as guests in addition

to the following chaperons: Lt. and Mrs. Itschner, Dr. and Mrs. Stephenson, Prof. and Mrs. Dodd, Dr. and Mrs. Schrenk, Prof. and Mrs. Cullison.

Several of the members of the Columbia and Washington chapters were also present as were quite a few of the alumni.

—MSM—

Some girls are like rowboats—they can get into deep water in spite of a flat bottom.



I keep coming back to that word "balanced" on the back of the Chesterfield package

YOU often hear the word balance—something is out of balance—top-heavy, not on an "even keel."

What you read, "Chesterfield Cigarettes are a balanced blend," means that the right amounts of home-grown tobaccos—the right kind, the right quantity—are blended and cross-blended with tobaccos from Turkey and Greece.

When these tobaccos are balanced one against the other, then you have a mild cigarette, a better-tasting cigarette.

May we ask you to read again the statement on the back of the Chesterfield package? May we ask you to try Chesterfield?

Chesterfield

A Balanced Blend



THRU THE TRANSIT

By the Hon. Juniper J. Jitters, Esq.



Having been very inadvertently caught in the merry social whirl over the week-end we now find the sheet's deadline approaching and no copy has been produced as yet. Quite a few of the neophytes made their formal debut to the Rolla Polo Set over the week-end as the Pi Kap and Sig Pi Lodges entertained. And, believe it or not, the Pi K. A. party was awfully dry and even began at nine and ended at twelve.

Once again we note that Roy Towse, former Miner quarter back, has returned from Macon minus his appendix. An unveiling ceremony is being planned for the near future and all those who haven't had an opportunity to see the latest style in operations can attend for one thin dime.

What with having a Teachers' Convention and two dances all in one week-end, the boys seemed to have quite a time. And so now quiet can once more blanket the campus until the much awaited day of Homecoming rolls around next month.

According to the football schedule our next home game appears to be with the Springfield crew. Remember the last tussle, held in Springfield? Maybe their behaviour is to be above criticism up here. Especially since they ousted the football captain just because he wanted his tuition. From the way they talked one would be led to believe that such a request was unheard among their Simon Pure athletes. Nuts, say we.

The best crack of the month, with apologies to the Rockhurst (Kansas City) Sentinel, is the one about the gangster who was killed and left a wife and three policemen without any means of support.

Why doesn't Wender, of book and transportation fame, open up a matrimonial and date bureau? Or he might haunt houses. Charge ten cents a room for haunting and five per cent extra for the bathroom unless there's a girl in the tub. In that case he pays five per cent.

Who saw the stupendous cart-wheel exhibition out on East 12th Street Saturday evening?

And where were Plummer and Bill Bright last Friday.

Among our cuff notes - - Bill Springer of Kappa Sig affiliations with his one and only - - said O. A. O. being a teacher from Houston - - Milton "Ling Po" Lageman having quite an evening with the teachers - - learning something educational, no doubt - - Charlie Murphy being boosted for Senior Class President - - and after they've known him for so long - -

the Sig Pi dawnce - - - was you present, Algernon - - - what a party - - - lotsa pretty gals and? - - - same for the Pi Kap affair - - - the driest and quietest in many a blue moon - - - Colonel "Soapy" Settle at his best - - - Gardner of up and coming football fame - - - driving nonchalantly up the railroad track - - - light up a Murad - - - or somepin' - - - our Editor out of town - - - no good can come of that, Walt - - - pledge dances all over - - - the neophytes have now made their formal debut to Rolla society - - - and the Polo Set - - - real Miners now - - - forty-niners marked down from fifty - - -

Alumni of Chicago District Hold Meet

On Wednesday night, Oct. 11, the Chicago-Alumni held a meeting and banquet at the Engineers Club in honor of the visiting Senior Metallurgists. R. H. Maveety, '12, Chairman, acted as Toastmaster.

At this meeting A. F. Mohri, '23, Metallurgist with Inland Steel Company, was elected Chairman. Fred Grots, '16, Metallurgist with Hubbard Steel Company, was elected Secretary.

Those present at the meeting and their present positions were: R. H. Maveety, '12, Chicago Fire Brick Co.; B. L. Chaney, '27, Illinois Highway; C. C. Irving, '25; C. L. Kitchen, ex '26, Interstate Coke & Iron Co.; C. A. Walls, ex '24, Illinois State Highway; E. M. Guy, '23, Illinois State Highway; M. J. Paul, '27, Natural Gas Pipe Line Co.; R. E. Hilpert, '27; Ross A. Ballinger, ex '24, Illinois Steel Co.

August F. Mohri, '23, Inland Steel Co.; R. A. Lindgren, '23, Wisconsin Steel Works; F. A. Gerard, '27, Sanitary District of Chicago; Herman Blickensderfer, '27; H. G. Halsey, '14, Real Estate Dept., University of Chicago; W. R. Knappenberger, '13, Electric Storage Battery Co.; L. A. Oberly, '25, Pure Oil Products Co.; Ben H. Cody, '11, International Lead Co.; John P. Walker, '11, International Lead Co.; Frak W. Cody, '13, International Lead Co.

Myron Thomas, '30, Illinois Steel Co.; R. L. Kirkpatrick, '31; Leo Schapiro, '24, Illinois Steel Co.; Wm. Godwin, '25, Commonwealth-Edison Co.; Bemis S. Followill, '31, Grasselli Chemical Co.; C. W. Bower, ex '16, Grasselli Chemical Co.; A. N. Detweiler, '10, Goldsmith Bros. S & R. Co.; J. Walter Scott, '19, Western Electric Co.; G. E. Johnson, '16, International Lead Refining Co.

Many a wise guy gets his brains from his father, his money from his mother, and his good looks from the front row of a burlesque show.

Patronize Our Advertisers.

65 Students Visit Bagnell Dam Today

About sixty-five students and faculty members from the Electrical and the Mechanical departments left this morning for a day's inspection trip to Bagnell Dam.

E. C. Kozeny, president of the student A. I. E. E., has been in charge of the plans, and through the aid of Prof. F. H. Frame's brother, who works at the dam, arrangements were made for a complete inspection of the hydroelectric works.

Professors Frame, Lovett, and Raines of the E. E. Department, and Professors Jackson, Kilpatrick, and Underwood of the Mechanical Department will accompany the students on the trip.

College Boys May Benefit by Forests

M. S. M. students living in this locality may profit in the U. S. Federal Forestry plans this winter. Applications come into the temporary office at the postoffice daily, but only a few jobs will be open this fall.

At the end of this week about eight local young men, preferably college men, will be hired to make compass surveys in two of the four forestry units which will be ready for work to begin on them.

About forty carpenters have been hired to build barracks at the Clark unit near Salem, and the Indian Trail unit in Crawford County.

Land appraisal is now progressing and more acreage will be bought this winter. Land is being purchased at around \$1 to \$1.70 an acre and will be replanted in lumber-making trees.

S. D. Anderson, Federal Forestry supervisor, is now in charge. Leslie Bean, now in Milwaukee, is expected to take charge here soon.

M. S. M. Players Elect Officers

The M. S. M. Players met for the first meeting of the year last Wednesday afternoon. The officers for the coming season will be W. Westfield, president; D. Martin, vice-president; J. O'Bryant, secretary; and H. Dallmeyer, business manager. Plans for the coming year's activities were discussed, and work on the first production was decided upon.

Tryouts are invited to come out for this organization. In order to increase the membership, the Players have reduced the requirements for admittance. This year, any person taking a major part in one play or a minor part in two plays is eligible.

We hear that Pete Badame—the Pi K. A. flash—is wearing a bullet-proof vest. Wonder who the irate poppa is?

For A . . .

BIG Beer
and a
LITTLE Game of Pool
S & S BILLIARD PARLOR

MINERS CAFE
For GOOD Things to Eat
BEST MEALS
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THE BEST OF ALL

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HAIR OIL 25c
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FOLLOWILL DRUG CO.

Rolla Sample Shoe Store

Shoe Repairing A Specialty

709 PINE STREET

JOHN F. SEASE, Proprietor

Remmers Addresses Mets and Chemists

Last Tuesday morning the senior Metallurgists were honored by a visit and a talk by W. E. Remmers, graduate of the class of '24 and now metallurgist with the Western Electric Company of the Bell Telephone Company. Mr. Remmers addressed the class on the fire refinement of copper.

In the process as described, a great deal of the raw material charged into the reverberatory type furnaces employed is scrap copper which is to be reclaimed. Especially has this been true of the character of the charge during the past few depression years. The process is performed in three steps consisting of charging, refining, and casting. Under the head of charging comes loading, which requires about five hours, and melting down, which consumes three hours' time.

The step known as refining is more complex, being divided up into the three sub-steps of skimming, oxidizing, and poling. To skim the molten copper requires about one hour and many of the impurities that come to the surface are removed at this stage. After skimming, the copper is oxidized up to 1 per cent oxygen, some four hours being devoted to this. The oxygen added forms some Cu_2O which comes to the surface, is skimmed off, and saved for further refining. Following the oxidation the copper is polished or deoxidized down to the desired percentage, which is usually in the neighborhood of 0.05 to 0.06 per cent oxygen.

The final step is the casting of the melt into horizontal molds, which requires eight hours. In some places vertical molds are used but the horizontal mold is still almost universal in practice. An experienced copper man can readily tell the character of the metal by the set of the cast surface. The ideal set is a surface that is convex up to a point of ridges. A flat, sharp-cornered surface denotes more than .065 copper and a concave surface denotes .09 to .1 copper content.

The copper melt is poured into preheated molds sprayed with a solution consisting of high grade bone ash crushed thru 200 mesh and placed in suspension in water. For de-oxidized copper cast into vertical molds, lamp black and kerosene are sometimes used. The bars thus made are about sixty inches by four inches by four and one-half inches and are then sent to the rolling mill to be drawn into wire or made into desired shapes.

During the refining process, the bath is agitated continually, either by air or by stirring. Of the impurities present, the tin and zinc are burned off and the iron oxides and is skimmed off. Any lead present is oxidized and by agitating sufficiently will rise to the surface and may be skimmed off. In some cases a fluid slag of limestone and silica is added to remove the lead. The temperature of the bath varies between 2050 degrees F. and 2185 degrees F.

In the final product an electrolytic assay is made for lead and it must show a value of less than .005 per cent. The copper and silver com-

bined will usually constitute 99.93 per cent of the total.

In another lecture which Mr. Remmers delivered to the metallurgists and chemists, he discussed magnetic properties and materials employed by the telephone industry. Among the most important of these that are used for permanent steels, are plain carbon steels, carbon chrome, carbon manganese, tungsten, cobalt, and nishirva steels. Of this group the carbon chrome steels are of the most importance. These are produced by various companies under the names of Permalloy, Hypernik, Copernik, Nu-metal, and Nicoloi.

MSM New Class in Golf Organized by Brown

A class which offers golf instruction to beginners has recently been organized by Coach Brown. There are two sections, one meeting on Monday and one on Wednesday afternoons. The class is given instruction for a period of from one hour to an hour and a half. At present there are about ten students in the two divisions.

The course is open to all students, and takes the place of the regular physical education periods. A swimming class will also be organized later to take care of those physical education students who desire this sport.

It is very desirable that the students realize the opportunity that is given them by the organization of the golf class by Coach Brown. This is an excellent opportunity for the student to secure lessons in the fundamentals of the game, and the course that Coach Brown is offering is equivalent to lessons that are offered to beginners by a professional golfer. Coach Brown is a very capable man for teaching such a course, having followed the game for several years. At present he holds the eighteen holes of play record with a 69 and is tied for the nine hole record with a 32. Next year it is desired that a course in golf instruction be listed in the school catalogue.

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Lectures Series to Get Good Speakers

Perhaps a few of us have been wondering what's happened this year, since there have been no General Lectures programs as yet. The General Lectures Committee, however, is ready to assure everyone that the programs this year, while perhaps fewer in number, are to be of such quality that 'twill be a shame to miss any of them.

For instance, Dr. Millikan, a world-famous figure in the study of physics, and the man whose textbook most of us used in high school physics, is to present an address some time this year. Dr. Millikan captured his audience on a previous visit to Rolla, and those of you who gripe at physics need have no fear of his lecture being anything like a classroom affair.

Then there's a name we've all heard in connection with Arctic exploration—it's McMillan. Right now we can't recall McMillan's proper title—but whether it's Captain or Mister, he is a very successful talker, and will appeal to everyone when he comes to M. S. M.

Preparations for the third annual Stunt Night are also under way, and the program will be put on just before the Christmas holiday.

MSM— Wisconsin Drill Option Threatened

Wisconsin has long enjoyed a reputation for being a stronghold of liberalism. Back in 1923 she distinguished herself by abolishing compulsory military drill in her schools and colleges by legislative enactment.

But the majority of LaFollette Progressives in her legislature has

been gradually dwindling. The last election saw them displaced by a majority of reactionary Democrats.

Warmly applauded and supported by Wisconsin Legionnaires, Assemblymen Fox and Perry introduced during the last session of the legislature a bill designed to repeal the optional military training clause adopted in 1923 and to substitute in its place a compulsory drill mandate. A hearing on the bill was subsequently held—last spring.

Several students from the State University appeared to express their opposition to the proposed bill. Professor Edward A. Ross, noted sociologist at the University, supported and testified his opposition to the bill, as did representatives of Wisconsin churches, Women's Clubs, labor and farm groups, the Socialist Party and the Y. W. C. A.

The bill passed the Assembly and then the Senate, only to be vetoed by Governor Schmedeman last June. This was done, fortunately, after the legislature had adjourned. Had it not been so, Governor Schmedeman's veto would almost certainly have been overridden.

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R. O. T. C. (Continued on Next Page)

made a very impressive showing in the first parade held last Wednesday. Dave Hale has been appointed as Major and Tom LaFollette as Staff Captain and Executive officer of the battalion. Gene Kew is Adjutant and the company commanders are Ray Oswald for A Company and Bert Fort for B Company. Harry Decker is second-in-command of Company A and Walt Irwin holds the same position in B Company. The lieutenants are not assigned permanently to any one platoon but the command is rotated from week to week.

The officers and non-commissioned officers and their company assignments are as follows:

Staff: Cadet Major—Hale; Cadet Captain and Executive Officer—LaFollette; Cadet Captain and Adjutant—Kew.

Colors: Cadet Staff Sergeants—Book, Johnson. Cadet Corporals—Hanson, Peebles.

Company "A"—Cadet Captain—Oswald; Cadet Lieutenant (2d in command) Decker; Cadet Lieutenants—Atkinson, Buck, Czyzewski, Joslin, McConnell, Reese, Schamel. Cadet 1st Sergeant—Howe. Cadet Staff Sergeants—Borgstede, Dutton. Cadet Sergeants—Gilsdorf, Mashek, Thoele, Colman. Corporals—Worseck, Mooney, Jackson, Gordon, Tetley, Hoener, Green. Striker (Guidon).

Company "B"—Cadet Captain—Fort. Cadet Lieutenant (2d in command) Irwin. Cadet Lieutenants—Brasamle, Cei, Darling, Ford, Hedges, Walther, Weigel. Cadet 1st Sergeant—Fischer. Cadet Staff Sergeants—Neel Snyder. Cadet Sergeants—Knoll, Haffner, De Roy, Nolde. Corporals—McCarron, Arnold, Schwalbert, Evans, Kiser, Wright, Hall, Rasor (Guidon).

This year there will be no Armistice Day parade due to the fact that Armistice Day comes on the Saturday following the St. Louis University football game.

—MSM— METALLURGISTS (Continued from Page One)

plant and among the most interesting sights were the Bessemer and Open Hearth furnaces, which the boys saw tapped. In the rolling mill and structural steel mill some idea of mass production was obtained and the processes were followed through from the furnaces to the finished products. After having lunch at the South Works the party was met by a bus from the International Harvester Company and taken through their plant and assembly line.

The third day of the trip was again devoted to steel and the Inland Steel Company in Indiana Harbor entertained the group with an inspection trip and lunch. The afternoon was spent at the American Forgings Company.

On Thursday a trip was made to the Dallas Plant of the Revere Cop-

per and Brass Company where all types of brass and copper forgings are produced. An exhibit, which was sent to the Metallurgy Department last week by the company, is on display in the Metallurgy Building. The remainder of Thursday morning was devoted to a trip to the Stewart Die Casting Company where aluminum and alloy castings are made. Thursday afternoon was given over to another trip to the Fair.

The final day of the trip found the group at the American Manganese Steel Company. At this plant extremely tough castings, such as crusher plates, are made. After having lunch with the Columbia Tool Steel Company, the practice of making high grade tool steel was seen. It was interesting to note the extreme pains that must be taken with such steel in order to insure satisfaction.

For Wednesday evening Prof. Clayton arranged a banquet of the Chicago Alumni at the Chicago Engineers Club. Twenty-eight alumni turned out for the affair and were introduced to the Metallurgists of the Class of '34. Everyone gave a short talk and likewise enjoyed the interesting and witty speech of Boots Clayton in which he recalled many old memories.

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