



15 Apr 1936

## The Missouri Miner, April 15, 1936

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# THE MISSOURI MINER

## MISSOURI SCHOOL OF MINES AND METALLURGY

VOLUME XXII

ROLLA, MO., WEDNESDAY, APRIL 15, 1936

NUMBER 27

### PUBLIC UTILITY IS REGULATED MONOPOLY-PORTER

Former Member of Public Service Commission Speaks Before Large Group

J. H. Porter former Engineer Member of the Public Service Commission of Missouri and at present a Consulting Engineer gave a very interesting lecture to a large group of C. E.'s, Miners, and Econ. students last Wednesday evening at 7:30. He briefly outlined the history of the Public Service Commissions, and their practice of valuation and rate making.

Mr. Porter brought out the fact that within the last generation the Public Utilities have developed. As examples he mentioned the Bell Telephone System, the American Telephone and Telegraph Company, and the various private Utility companies furnishing power throughout the country. This year is the 50th year of commercial use of the A. C. current. The long distance service made possible by the A. C. current was the major step toward the widespread development of the Public Utility System.

To illustrate the conditions of only a few years ago, Mr. Porter told of having to read by gas lamps in his boyhood in a town of forty thousand inhabitants. Today even the isolated farmer reads and works by the modern electric lighting equipment.

Continued on page six

### REID LECTURES ON MINERALS

"Hard Rock" Miner, M. S. M. '27, Now Busy With Non-Metallic Metals

Joseph T. Reid of the National Lead Co., M. S. M. '27, followed Mr. Porter on the program as the guest speaker for the Mine, and Met. Association. Barite and Bentonite, two minerals that are steadily advancing in commercial importance, was the subject of Mr. Reid's talk.

Barite is used in many industries, for example, paint trades, ceramics, metallurgy, refining, dyeing, medicinal, explosives, and X-ray. Washington County, Missouri, is the principal producer of Barite in the United States. The west furnishes some, but only a small amount. Commercial interests find it to their advantage to import most of the Barite now used. Germany at present is the world's largest producer.

Bentonite is found mainly in Eastern Wyoming. It is a "new comer" in industry. The principal use at present is in oil well drilling. The Bentonite forms a very heavy mud thus being very effective in the drilling of pressure wells. Bentonite is being steadily built up as a very effective product in plastering. Mr. Reid demonstrated several interesting chemical features of Bentonite. In water it will swell to seven times its normal size. Also it forms an ideal colloid. The addition of a basic material to the colloidal solution will instantly cause a jelly to form. It is in this form that Bentonite is of importance in the oil well drilling.

Mr. Reid started out to be a "hard rock" miner, believing that metal mining was supreme. Now, "stated Reid," the significance and importance of non-metallic minerals has dawned on him" and he

### DISCUSSION CLUB APPLIES FOR CAMPUS CHARTER

A little over a month ago an announcement of the meeting of a club which no one seemed to know anything about appeared on the bulletin board—The Discussion Club. This was the temporary name by which it was and is still known, although the society has chosen the name Forum. It was organized in three meetings and a constitution drawn up and submitted with a petition to the faculty to be accepted as a formal organization on the campus.

Its purpose is merely to furnish an organization and occasion for meeting by interested students and faculty to discuss questions which may interest them, as hobbies, war, science, or national politics. In so doing, the students also develop ability in public speaking.

At the meeting last Friday night at Dr. Mann's home the subject of discussion was the future of engineers in political and economic affairs. About ten members and Prof. Johnson were present.

Although started by Freshmen, the faculty and seriously interested upper classmen are cordially invited.

—M.S.M.—

### PRE-REGISTRATION STARTS MONDAY

To Be Conducted In Same Manner As Last Semester Advisors Changed

Pre-registration for next fall for all students will start on Monday, April 20, and all schedules must be in the Registrar's office by 12 noon on Saturday, May 16.

FAILURE OF ANY STUDENT TO PRE-REGISTER WILL SUBJECT THE STUDENT TO A LATE REGISTRATION FEE OF FIVE DOLLARS.

Blank schedules will be sent to the Faculty Advisers on April 18, and any student who wishes to change his curriculum must notify the office before that day.

One copy of the schedule of classes is available at the Registrar's office. Students would do well to try to make a schedule for themselves before reporting to their adviser.

Advisers are as follows:

Metal Miners... Professor Forbes

Petroleum Engineers, Dr. Stephenson

Mining Geologists, Dr. Muilenburg

Metallurgists:

Juniors..... Prof. Hanley

Sophomores... Professor Clayton

Freshmen... Professor Walsh

Civil Engineers... Professor Butler

Mechanical Engineers

Professor Jackson

Electrical Engineers,

Professor Frame

Chemical Engineers... Dr. Schrenk

Ceramic Engineers, Professor Dodd

Students in the Science curriculum are to report to their major professor.

Pre-registration will be conducted in the same manner as last semester, and the schedules turned in first will get first choice of sections. The pre-registration schedule will be the student's official schedule for next fall unless he fails or drops some subject after pre-registration, in which case he may have to make a new schedule on registration day in September.

—M.S.M.—

prefers it, to Hard Rock mining.

While in school Mr. Reid was active in Mining and Met, and other campus activities. He is a member of the Lambda Chi Alpha Fraternity.

### WE BEG YOUR PARDON

In the issue of April 1, a statement was made to the effect that Alpha Chi Sigma will be the first strictly professional fraternity on the campus. This statement is incorrect. The Miner wishes to retract this statement and apologize for the error.

—M.S.M.—

### BARDSLEY SPEAKS AT IOWA U.

Prof. Attends Hydraulic Research Committee Meeting; Branch of A. S. C. E.

Last Thursday Dr. C. E. Bardsley accompanied by Mrs. Bardsley motored to Iowa City, Iowa, where Dr. Bardsley attended the annual meeting of the Hydraulic Research Committee of the American Society of Civil Engineers. On this Committee with Dr. Bardsley are the Professors of Hydraulic Engineering at the Universities of Iowa and Minnesota, the Director of the Hydraulic Laboratory of the U. S. Bureau of Standards, the Department, and the Hydraulic Consulting Engineer on the Bonneville Dam on the Columbia River.

The Committee held its meeting in the large modern hydraulic laboratory of the University of Iowa. The main theme of the Committee work hinged on the use of models in connection with river improvement, the construction of model locks and dams, and the proper interpretation of mechanical results obtainable between the model and its prototype. The Committee is also writing a Manual for use in the operation of Hydraulic Laboratories in the United States.

The Committee was graciously entertained while in Iowa City. The President of the University gave a noon-day luncheon at the Faculty Club in the Iowa Union Building in honor of the Committee's visit to the University. The Dean and Faculty of the Engineering School in conjunction with the Engineers' Club of Iowa City held a banquet in honor of the Committee, at which each Committee member was called on for a few remarks. After this banquet the group proceeded to the auditorium of the Engineering Building where each Committee Member gave illustrated talks to the faculty and students on some phase of Hydraulic Engineering. Dr. Bardsley gave an illustrated lecture on his inspection of hydraulic laboratories in Europe as a Freeman Scholar. On another evening the faculty and wives of the Hydraulic Engineering Department gave a dinner in honor of the Committee and Mrs. Bardsley.

Mrs. Bardsley has much to report also: She was highly entertained by the ladies of the Engineering Faculty at luncheons and parties, and paid a visit to the Amalite Communists' colony twenty three miles west of Iowa City. The Communists colonies are self supporting and in their factories one can see the sheep sheared and follow through to the finished cloth. The young folks intermarry within the colony and the girls do not wear rouge nor lip-stick.

The last day was spent in Iowa along the Mississippi River as guests of the Hydraulic Faculty and the Corps of Engineering inspecting the moveable dam and Government Arsenal at Rock Island-Davenport, the dam under construction at Muscatine, and the dam and power plant at Keokuk.

All kinds of weather has en-

Continued on page six

### TWO SUMMER SURVEYING CLASSES THIS YEAR

There will be two summer surveying classes this summer as usual, the first one from June 1 to June 27, and the second from August 10 to September 5. Registration for both classes will start April 1 and close May 16. The fee for the course is \$15.

To register for the June class all that is necessary is to pay the \$15 fee at the Business Manager's office and show your receipt to Mrs. Small in the Registrar's office. Students registering first will have first choice of partners, and anyone registering after May 16 may find the class closed.

To register for the August class merely give your name to Mrs. Small in the Registrar's office. The fee will be payable when the class starts. The contingent deposit will also be payable at that time, and the remainder of the fees for the first semester will be payable on registration day in September.

Further announcements as to the surveying course will be made by the Civil Engineering department.

—M.S.M.—

### MINING DEPT. IMPROVES MINE

Old Hopper Demolished; All Outside Machinery Moved To New Positions

Many new improvements and additions have been effected this year at the school's experimental mine. The old bin or hopper, which has not been used for years, has been demolished. With the exception of the Blake jaw crusher and the air hoist, all of the outside machinery has likewise been moved. The two steam-driven air compressors have been donated to the Mechanical Engineering Department which will, presumably, exhibit them as relics of a by-gone age. The Mining Department recently purchased a new portable Diesel two-stage air compressor. The compressor has a capacity of 210 cubic feet of free air per minute at 90 pounds per square inch gage. This amount of air will be sufficient to operate one drifter and one jackhammer at the same time. The Diesel will afford opportunities for interested students to make a direct study of this type of engine.

A new air meter was also purchased which makes it possible to measure air consumption of different conditions.

When Mr. Neal Ham visited the campus last year to make a talk before the Missouri Mining and Metallurgical Association, he noticed that most of our mine plant equipment was obsolete and that we were badly in need of new air drills. In an effort to correct this situation he recently donated to the Mining Department two new Ingersoll-Rand drills, a type N-75 drifter and a type S-49 jackhammer. The machines were a personal gift and we are very much indebted to Mr. Ham for his generosity. The donor graduated from this school in 1923.

With the new equipment the mining students will be able to carry on drilling tests, detachable bit efficiency tests, and experiment with different types of rounds in order to determine their effectiveness. The M. S. M. Mining Laboratory is now as well equipped as any in the country.

The Petroleum Engineering Department has also shown a great deal of initiative by converting the old "monkey house" back of the Bureau of Mines building into a Petroleum Engineering Laboratory that is modern in all respects.

### MISSOURI WATER ANALYZED BY U. S. G. S. MEN

Ira Remsen Hears Natural Waters Discussed By Stout And Meckfessel

At the meeting of Ira Remsen Chemical Society last Wednesday evening Mr. Stout and Mr. Meckfessel, working on the analysis of Missouri natural waters in connection with the Geological Survey, spoke on their work in that field.

Mr. Stout outlined his method and the results of his research on strontium in natural waters. In such analysis ten parts per million of strontium is considered a large amount. However, some deposits of strontium have been located by analysis of water coming into wells at different levels.

Mr. Meckfessel demonstrated his method of determining the content of fluoride ion in water by the use of a very sensitive color indicator, a mixture of sodium alizarin sulfonate and zirconium nitrate, which changes from pink to a faint green when fluoride ions are added. Interest in the fluorine in water developed when it was found in 1931 that mottled enamel on the teeth of children in certain districts was caused by small percentages of fluorine. Nine-tenths of one part per million of fluorine is sufficient to produce an effect. Three methods of removing the harmful fluorine have only been partially successful to date.

This survey of rare ions in Missouri waters started here in October, 1934. Mr. Meckfessel also worked on the determination of bromine and iodine ions in waters.

—M.S.M.—

### MORE COLOR IN NEW ROLLAMO

To Be Distributed No Later Than May 25; To Be All-Campus Edition

The Rollamo, our annual yearbook will be distributed no later than May 25. This year's issue is to be an all campus edition containing articles on all the activities of the campus. The book, this year, will be the same size as last year's but will be arranged differently. This new arrangement will include much more color and a more collegiate style.

The Rollamo may be entered in a national collegiate yearbook competition. Much time and effort have been spent in making this issue the best in a number of years. A page is to be dedicated in memory of Charles Mitchell, a former student of M. S. M. who was killed last summer while working in a laboratory of the Orenda Chemical Co.

It is the final hope of the Rollamo Board that nothing unforeseen will arise to interfere with the distribution of the book at an early date.

—M.S.M.—

Compressed air, running water, Skelgas unit, electrical outlets, a hotplate, driving motor, vacuum pumps, and twelve laboratory desks have been installed. In addition to the aforementioned improvements, the following items of equipment have been purchased; a rock-coring machine, porosimeter, set of screens for sizing analyses, Saybolt viscos-

Continued on page six



## THE MISSOURI MINER



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

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## "VETERANS OF FUTURE WARS"

The new movement in American Colleges to organize chapters of "Veterans of Future Wars" is growing rapidly. Everyone seems interested in the movement. The purpose of the movement is supposed to be to secure the payment of bonuses to members now, before war starts, so that they can enjoy it while they are still hale and hearty.

Perhaps our school should organize a chapter. We all undoubtedly could use the \$1,000. bonus now much better than later on. War is a thing which seems inevitable, bonuses are paid before due, therefore let us get in on our share of the gravy.

What's behind the movement? A College prank on a national scale? A sincere effort to advance the cause of peace through the medium of a witty burlesque that serves to point out the cost of a war before it starts? Or is it a movement prompted originally more by the desire to attack the bonus as a tax burden, than a desire to inform the country that the temper of American college men and women is pacifistic? It may be any one of these reasons, or it may just be a college editor's method of starting something to write about. We will know presently.

M.S.M.

EDITOR'S NOTE:—The following poem was submitted anonymously by one of the students of M. S. M. The Miner appreciates the interest shown by the author. We invite contributions and comments. Many thanks.

## OUR SCHOOL PAPER

I attend the Missouri School of Mines,  
And we have a school paper there  
Which should print news of all kinds,  
But to do that it doesn't seem to care.

They held an election the other night,  
To determine who should get the dough,  
But all they did was wrangle and fight,  
And forgot the paper, I'll have you know.

The Editorship changed hands again—  
For the better, we all hope and pray.  
The new Editor starting in with a fresh pen  
Had better be good, or he'll rue this day.

The new Board promises great things,  
But we've heard all those before,  
So for a change, let's see these things  
Come to pass; your readers won't get sore.

Give your subscribers something worth while—  
Print a paper of which they'll be proud.  
Don't write for just the top of the pile,  
But give us a paper for all of the crowd.

Everyone will say that in the dim past  
The "Miner" wasn't what we'd request,  
But that is over—a new die is cast,  
A new Editor, new Board to give us their best.

So once more our hopes are raised high  
For a school paper that will really be good,  
Still, there isn't much use in reaching for the sky,  
But wouldn't the change be swell if we could?

—Anonymous.

EDITOR'S NOTE:—Contributed to The Miner.

## FRESHMEN

Now that this school year is beginning to draw to a close we wonder what has happened to the **Good Old Miner Spirit and Customs of Keeping the Freshmen down and in their places.** From the way they act around the campus one would think (if it weren't for the looks on their dumb faces) that they were graduating Seniors. They lounge around the campus, park on the grass, wear their monkey suits all day long, chew on pipes, and even wear beards longer than the House of David. And what has happened to those green pieces of strings that used to adorn their manly shoulders and hold their so called trousers in place. We haven't seen a green suspender for so long we won't know what they look like when the next crop of yearlings slink around next fall.

In some respect it is the fault of the class of '38' for not domineering the Frosh so completely and holding one of the well known Chem Lab inspections every couple of days. We thought the present Sophomore class was a fairly live bunch from the way they walked away with sports, and took their hazing last year. So we suppose this lack of respect for tradition and custom is partly the fault of the upperclassmen for not demanding a little more action and respect. With six more weeks of school left why not show the "Thirty-niners" something?

M.S.M.

## SCIENCE NEWS

By E. L. Claridge

The mathematicians seem to be getting tired of the amateur angle-trisectors. At any rate the Scientific American published an article this month in which a contributing editor proved by analytic geometry that trisection of an angle with a straight edge and compass is impossible. There are several such proofs, well known among mathematicians, but regardless of that every once in a while some enterprising college president or high school geometry student pops up in a newspaper with a new "solution." To say the least, they are quite optimistic to think they can do something proved impossible.

It takes five miles of it to weigh a pound! This is the specification of a piece of nickel tubing which has been produced, not, however, in five mile lengths. It has an outside diameter of .005 of an inch and a wall thickness of .0008 of an inch, and weighs only .000046 of a pound per linear foot.

The Spring meeting of the A. S. C. E. will be held in Hot Springs, Arkansas, a famous health resort, from April 22 to 25, inclusive. The engineering and industrial developments of the Lower Mississippi Basin and the Mid-South are subjects of timely interest to be presented in the general meeting and the sessions of the technical divisions.

The rare element Gadolinium has been isolated 98.4 percent pure by French scientists. They electrolyzed the fused salts of Gadolinium, cadmium, and several other methods to obtain an easily fusible alloy, which they distilled in a high vacuum at a high temperature to obtain the practically pure Gadolinium, containing only a little silicon.

A new magnetic alloy, Alnico, has been developed by the General Electric Company. It is capable of lifting sixty times its own weight and is permanently magnetized. It is expected that it will take the place of electromagnets in small motors, saving space and weight.

Charles F. Kettering, Vice-President of the General Motors Corporation in charge of research, has been elected from a field of twenty-six candidates to receive the Washington Award for 1936. Familiarly called by his associates "Boss Ket," he is recognized as America's Number One research and "Monkey-wrench scientist." The award is a bronze plaque on a marble base, and is "an honor conferred on a brother engineer by his fellow engineers on account of accomplishments which preeminently promote the happiness, comfort, and welfare of humanity." It is conferred jointly by the A. S. C. E., A. I. M. E., A. S. M. E., A. I. E. E., and the Western Society of Engineers.

442

That is just another way of saying 1936, the perfect square of forty-four. This is the first year since 1849 which could be expressed as a perfect square, and the next does not come until 2025 A. D.

has devised a machine to scientifically measure the width and length of the hand. A manufacturing company is now putting it on the market.

Dr. George R. Sharpless of the Henry Ford Hospital in Detroit believes he has found a way to counteract the effect of fluorine in drinking water on the teeth of children, producing mottled enamel. He has experimented on rats and found that the fluorine can be rendered harmless by the addition of aluminum, which combines with the fluorine to form insoluble and harmless aluminum fluoride. Whether it will be successful on humans is yet to be determined. Mr. Meckfessel here at the School of Mines has been working on a survey of fluorine bearing waters in Missouri for some time, and is well acquainted with the problem.

It is a singular fact that on the darkest nights there is enough illumination from the sky for a pedestrian to see his way or to read the heading of a newspaper. Georges DeJardin of the University of Lyons in France has measured the brightness.

A new type weather map showing conditions in various levels of the air and on the ground has been developed by I. I. Zelson of the U. S. Weather Bureau in Pittsburgh. It is a box containing eight glass plates one above the other with transparent weather maps on each representing eight altitudes up to 16,000 feet. In the bottom of the box is an ordinary weather map of ground conditions in the United States. Such a system is of use in mass air analysis and to airplane pilots.

M. S. M.

"Copy," cries the editor,  
But no copyboy is there.  
"Scoop," yells the frosh reporter,  
But no scoops are in the air.

"Dammit, we're short on copy."  
The Ed howls as he retires  
To waste his time in envy  
Of papers with AP wires.

"Where's all our staff," he hollers.  
Knowing well they won't be in.  
He'd spent his last few dollars  
For a little college sin.

He wishes for a story  
To plaster across page one;  
Say, something primed with gory  
Stuff about illicit fun.

In swaggers the staff's lone ace.  
Again shouts make the air ripe;  
A wide smile spreads on his face:  
"Drag out all your four-inch type."

"A scoop at last," the Ed sighs.  
"What news, man? What can it be?"

And proudly his star replies:  
"The Lambda Chis gave a tea."  
—Clipped.

**RUSSELL BROTHERS** **BIG THREE RING**

# CIRCUS

PERFORMANCES  
2 and 8 P. M.  
Doors Open One Hour Earlier

## ROLLA

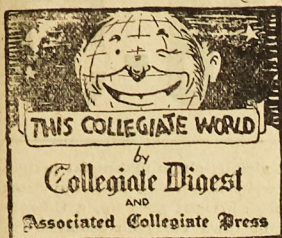
Fair Grounds  
Thursday, April 16

A BIG HIGH CLASS CIRCUS AND MENAGERIE

ADULTS 35¢ CHILDREN UNDER 12 15¢

**THE GREATEST CIRCUS ON EARTH**  
For the Price





# FLOODS AFFECT COLLEGES

Hundreds of New England college students offered their dormitories and services to flood sufferers when swollen rivers went on a rampage that cost scores of lives and caused property damage estimated in the millions.

Amherst and Massachusetts State dormitories, at Amherst, were opened to 1400 refugees, and Dartmouth students stood ready to join WPA workers in the task of sand-bagging dams and river banks.

Although most New England colleges were safely out of the flood area, nearly all suffered minor inconveniences. Mid-term vacations were curtailed for some, communications were out generally.

Other Eastern schools had second, or third-hand encounters with the flood, most severe of recent years. The Penn State boxing team, pointing for a match it was later to lose to the University of Wisconsin, was forced to postpone for three days its bouts in Madison until they could find transportation out of the flood area. Penn State furnished heat and power for citizens' use. Princeton reported severe distress among students who were notified, on the eve of prom, that girls they'd bid were unable to get through.

M.S.M.  
G-MEN

Personal, if slightly informal, relations with a lot of G-Men were en-

joyed by twenty-five Syracuse University students last week when the finger of the law identified them as the pranksters who had sent a fake bomb to Chancellor Charles W. Flint. They were charged with disorderly conduct, and the postoffice department wired a note of cheer from Washington, saying that Federal action might be taken.

The tale begins with a group of architectural students sitting around trying to think of something to do instead of studying architecture. Some bright lad thought of the bomb plot, and an infernal machine was immediately constructed from taped wires, cotton, dead dry cell batteries, cardboard tubes filled with sugar and an old alarm clock. Addressed to "Comrade Chancellor Charles W. Flint," it was entrusted to the U. S. Mails, wherein lay its undoing.

An alert postoffice clerk, noting the horrendous "Comrade" salutation, and the ticking of the alarm clock, rushed the package to a pail of water. Postal inspectors opened it in due time, were at first convinced it was genuine. The sugar-soaked cotton had the same appearance as gun-cotton, they said.

The University did not concern itself with the sad plight of the twenty-five pranksters when G-Men had rounded them up and hustled them into cells at the city jail. "The matter is in the hands of the authorities," said Vice Chancellor William P. Graham.

M.S.M.  
QUOTABLE QUOTES

(By Associated Collegiate Press)  
"Football develops that type of man who asks nothing more than to fight his own battle in life," Maj. John J. Griffith, Big Ten Commissioner of Athletics, defends the college game.

"Spend leapyear on the farm if you're a bachelor, and want to stay that way," says Prof. E. T. Hiller of

the University of Illinois. He explains that there are fewer unmarried women in rural districts.

"I marvel at the gentlemanly ways that have been discovered of being dishonest," Chicago's Robert M. Hutchins discovers that honesty is no longer considered smart.

"A middle-aged individual has less chance to reach the age of 80 than his grandparents had," So says Dr. Alexis Carrel, who ought to know.

"The right to search unimpeded and unhampered for truth, and to express what one finds to be right freely, courageously, and to the best of his ability," Harvard's President James Bryant conant records his conception of academic freedom for the benefit of Massachusetts' legislative oath advocates.

"After all, is it necessary that we all speak alike? There always will be conventions of pronouncements that no educated man can afford to neglect, but variations in minor matters should not be suppressed," Boston University's Prof. William G. Hoffman staunchly defends regional variations in speech.

"The only two present candidates for the Republican presidential nomination of whom I heard much mention were Senator Borah of

**SHOES**  
**DYED**  
**OR**  
**SHINED**  
**Modern Barber Shop**  
**"BUSS"**

Idaho and Governor Landon of Kansas." Columbia's President Nicholas Murray Butler reports a startling discovery after a 13 weeks' trip through the U. S.

"And yet the paradox of the situation is that now, just when we most need freedom and fearlessness in the school's handling of the basic issues of the time, waves of popular hysteria against a free and fearless scholarship begin to beat over the schools," Wisconsin's President Glenn Frank views with alarm.

"The kind of men and women which the state colleges and most of the other great colleges are turning out of their great state-leader

factories today is pretty poor stuff," Emporia's white-haired Editor William Allen White thinks we should have something new in education.

M.S.M.  
Governor Alf Landon is not the only Kansas male winning renown for his sense of economy.

Take the males at the University of Kansas for example. The men's council there has just issued a firm resolution requesting the girls of the campus to share evenly in the evening's expenses while dating the men. They have even gone so far as to formally request the cafe owners of the town to issue separate dinner checks for the women.

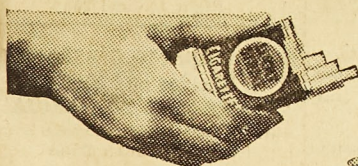
"Do not have a false sense of chivalry" the University men were advised by the council.

## TRIMNESS COUNTS

Your Appearance Reflects  
Your Habits  
Appearances Our Specialty  
**MODERN**  
**BARBERS and CLEANERS**

**ROLLA DAIRY**  
**PASTEURIZED MILK AND CREAM**  
**PHONE 26**  
**TWO DAILY DELIVERIES**

**MINERS LOUNGE**  
**EATS AL SMITH, Prop. EATS**  
**AT THE CAMPUS**



# A LIGHT SMOKE OF RICH, RIPE-BODIED TOBACCO

Each Puff  
Less Acid

I smoke for pleasure,  
my mind's at rest

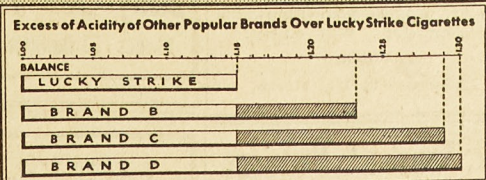
I smoke Luckies

a Light Smoke of rich,  
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# MINERS WALLOP ST. LOUIS U., 78-57

## SILVER AND GOLD TAKES 9 FIRSTS AND 8 SECONDS

Capt. Brown High Scorer With a First in Two-Mile,  
Tie For First in Mile and Second in Half-Mile

By Jimmie Evans

Coming back strong, after being nipped by Westminster last Friday, the Silver and Gold tracksters hung up their first track victory of the season Monday at the expense of the St. Louis University Billikens. By taking advantage of the summer weather a fast track the Miners collected nine firsts and one tie to annex the meet 78-57 and even up their record in sports with the Billikens for this year. Although football and basketball games with the Bills are annual events, this is the first track meet the Miners have ever held with St. Louis U. Thus every man who won an event last Monday afternoon is the present record holder in a dual meet between the two schools. To compensate this, no man had the opportunity of breaking a record.

The Miners were without the services of Ballman, stellar half-mile, who was ill in the hospital. High point honors for the meet went to Capt. Brown of the Miners who collected twelve points by winning the two mile, tying with Tittel in the mile, and placing second in the half-mile. The Billikens high point man was Best, weight man, who acquire three seconds in the discus, shot, and javelin.

### Summaries

**TWO-MILE RUN**—Won by Brown, Miners; Tittel, Miners, second; Sharrock, St. Louis, third. Time—11:54.2

**100-YARD DASH**—Won by Wolken, St. Louis; Pierce, St. Louis, second; McGregor, Miners, third. Time—10.3

**220-YARD DASH**—Won by McGregor, Miners; Wolken, St. Louis, second; Grimaud, St. Louis, third. Time—23.

**440-YARD DASH**—Won by Wilson, St. Louis; Shippee, Miners, second; Nickel, Miners, third. Time—53.4

**880-YARD RUN**—Won by Eberle, St. Louis; Brown, Miners, second; Irwin, Miners, third. Time—2:9.0

**MILE RUN**—Won by Brown and Tittel, Miners; Tied for First; McShane, St. Louis; third. Time—5:4.8

**110-YARD HIGH HURDLES**—Won by Yungbluth, Miners; Murphy, Miners, second; No third. Time—17.4

**220-YARD LOW HURDLES**—Won by Bishop, Miners; Ekberg, St. Louis, second; Yungbluth, Miners, third. Time—27.0

**880-YARD RELAY**—Won by St. Louis U. (Burns, Ekberg, Walken, Grimaud). Time—1:35.9

**POLE VAULT**—Won by Blish, Miners, and Hoge, St. Louis, tied; Lange, Miners; third. Height—11'

**HIGH JUMP**—Won by Lange, Miners; Jenkins, Miners, second; Fitz Williams, St. Louis, and Dowd, St. Louis, tied for third. Height—6'

**SHOT PUT**—Won by Volmer, St. Louis; Best, St. Louis, second; Pfeiffer, Miners, third. Distance—38' 9"

**DISCUS THROW**—Won by Jenkins, Miners; Best, St. Louis, second; Barbaglia, St. Louis, third. Distance—115' 6"

**JAVELIN THROW**—Won by Machens, Miners; Best, St. Louis, second; Grewis, Miners, third. Distance—11' 4"

**BROAD JUMP**—Won by Grimaud, St. Louis; Lange, Miners, second; McGregor, Miners, third. Distance—21' 2"

**MILE RELAY**—Won by Miners (Nickel, Tuckett, Shippee, McGregor). Time—3:40.4

—M.S.M.—

**BULL SESSION STARTS V. F. W.**  
Repercussions of a quiet remark dropped in a Princeton bull-session swept the country as the latest of the bonus-seeking organizations, the Veterans of Future Wars, established chapters on more than sixty campuses and embarked on a

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### Too Cold

A tourist going through the Northwest suffered a slight accident. Unable to find his monkey-wrench, he went to a farm house and inquired of the Swede owner: "Have you a monkey-wrench here?"

"Naw," replied the Swede, "my brother bane got a cattle ranch over there, my cousin got a sheep ranch down there, but too cold here for monkey wrench." —M.I.I.

Some of the boys call the "old man" around the boarding house "Theory," because he so seldom works.

Text:—That girl is nicely reared, isn't she?

Ross:—Yeah, she looks good from the front too.

Send the MINER to your enemies.

Old Maid:—(Hearing noise under bed): "Quick, Amy, the lights!" Amy:—"But they're on!" Old Maid:—"Don't argue!" —L.A.M.

Mac:—Betty, will you go riding in my Ford?" Betty:—"I won't do nothin' else."

Mac:—"Then you can't ride in my Ford."

"You'd better hang me", said the man sentenced to die by electrocution.

"Why?" he was asked. "Because I've been a janitor in a girls' boarding school." —V.P.J.

"Well, I think I'll put the motion before the house," said the chorus girl as she danced out on the stage. —M. S. M.—

**Marriage Bug**  
When people up at Macalester College in St. Paul, ask Prof. William Augustus Cornell if he isn't the young man who teaches the course in marriage problems, the professor generally changes the subject hurriedly.

Mr. Cornell, you see, is a bachelor in his mid-thirties.

Mr. Cornell is strong for matrimony—for other people.

"Love? No one can fall intelligently in love," declared the professor-bachelor.

"But professor, who wants to be intelligent," said a bright young thing in his class of 35.

"Spring," said the professor, "is here, and class is dismissed."

program variously hailed as delightful, valuable and "unpatriotic." "Because it is customary to pay bonuses before they are due," said the manifesto announcing the birth of the organization, "the Veterans of Future Wars demand immediate payment plus three per cent interest compounded annually from June 1, 1965, backward to June 1, 1935." Payment now, the manifesto emphasized, would "lift the country out of the depression" and enable beneficiaries to enjoy the money before they lost their lives.

Hardly had the future veterans elected officers when the first chapter of an auxiliary society, the Association of Gold Star Mothers of Veterans of Future Wars was

Continued to Page Six

## THRU THE TRANSIT

Looks like the local cinder artists kinda' took the city slinkers for a 'ride' in the country yesterday afternoon. The boys really looked like a well rounded squad. The only thing missing was the student body, however, after a careful survey we did find a few Miners about.

Talk about all this economy tripe—we were aware of the fact that Skipper Carlton sat with his teeth in his mouth and watched a pooch make a meal out of an eraser. Tisk tisk, Skip, the tax payers will be none to happy to hear about that. Well now that 'ole Prof. Dean has left us I guess there is nothing else to do with those darn erasers anyhow. If this town keeps harboring all these hounds on our campus we can throw the blackboards away and buy dog biscuits—or sumthin'.

One wonders just what the local belles were up too last Saturday night. We found the ball-and-chain club in a little batchlor session the other evening composed of our good friends Vincent, Langey, Price, Sam Taylor, Nations (tisk tisk Gawg, still on prob. too) and Lewin. Guess some of the boys are lucky in love but decided otherwise when it comes to African golf. Even Joe Peters sat in with the boys—my, my. Oh well, easy come easy go.

Our information department wishes to suggest that the next time there are any country parties it might be a good plan to secure a car with more clearance to get over these country roads with high centers. If the city keeps digging up the streets we'll have to get around with pack horses.

We got a post card from Squint the other day and he reports that the Blurb cracked up in Clamjuice, Ohio. Also said that he was on relief and gained ten pounds. Get yer applications in fellers.

Well it seems like that during the rush and recuperation of St. Pat's this here column missed a little item. We sure hate to overlook giving anyone a little free publicity. So here's the dope. Mr. Rodman and the little bit of cold weather (Winters) did their celebrating by getting hitched. How about it "Buzz"?

—M.S.M.—

### THE BRAIN TEASER

The answer to last week's teaser was easy. Everyone should have had no trouble in solving it. The man had a half dollar, a quarter, and four dimes.

A lady who took advantage of the present low cost of materials found herself with a real problem. Her room measured 8x12 feet. She wished to have a rug diagonally across the floor of the room so that, cut with square ends, each corner of the rug would come into contact with one side of the room. She decided on a rug four feet wide and then got stuck on the proper length. How long should the rug be.

Carrolla could not figure this one out algebraically, but he did get the answer graphically, therefore the odds are against your figuring it out algebraically. Will you try?

—M.S.M.—

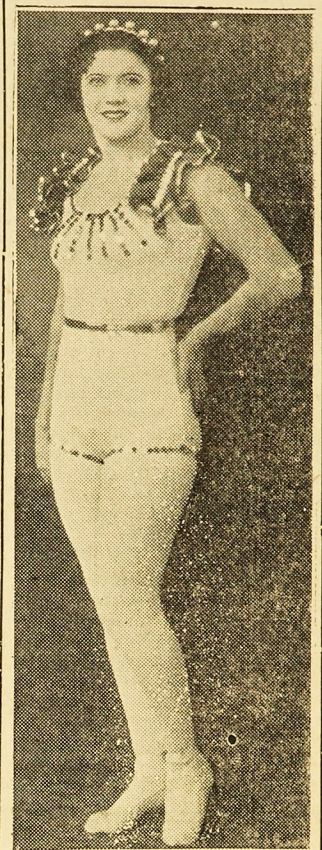
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ROLLA, MISSOURI

Evidence that consciousness may differ from unconsciousness only by a very small variation in the electrical currents of the brain has been presented by University of Illinois medical scientists.

A vicious circle makes fat people fatter by increasing their appetites as their weight goes up, a University of Iowa research scientist reported in a Master of Science thesis.



### Catcher Without A Mask

Frances Fisher is a catcher, though she wears no mask of mitt. She catches "The Man on the Flying Trapeze" as he somersaults about the big top in Russell Bros. Circus, which will initiate its 1936 season at the Rolla Fair Grounds on Thursday, April 16.

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Sandwiches

## PROGRAM ROLLAMO THEATRE

Matinee Saturday and Sunday  
Matinee: 1:30 and 3:30  
Night: 7:15 and 9:00

Wed. & Thurs., April 15 and 16

Al Jolson and Sybil Jason in  
"THE SINGING KID"  
"Little Stranger", "Basket Ball Technique", News  
Admission, 10c and 36c

Friday, April 17,  
Matinee and Night  
"THREE GODFATHERS"  
with Chester Morris, Walter Brennan, Lewis Stone, Irene Harvey  
Also  
Short Subjects  
Shows 2:30, 7:15 and 9:00  
Admission 10c and 25c

Saturday, April 18  
Matinee and Night  
"SKY PARADE"  
Jimmie Allen, William Garghan, Katherine Demille  
Also  
Short Subjects  
Admission Matinee 10c and 15c  
Night 10c and 25c

Sunday, April 19, One Day Only  
Matinee and Night  
"A MESSAGE TO GARCIA"  
with Wallace Beery, Barbara Stanwyck and John Boles  
Also  
March of Time and News Flashes  
Sunday Matinee 10c and 25c  
Nights 10c and 36c

Monday, Apr. 20, One Day Only  
Matinee and Night  
ON OUR STAGE  
MAJOR BOWES AMATEURS  
On Tour  
IN PERSON  
(Not a Motion Picture)  
And on The Screen  
Gene Withers in  
"GENTLE JULIA"  
Shows 2:30, 7:15 and 9:15  
Admission, Matinee 10c and 25c  
Night 10c and 36c

Tues., April 21, Bargain Night  
"LOVE ON A BET"  
Gene Raymond, Wendy Barrie,  
Helen Broderick  
Also  
"Star Gazing"  
"Shorty at Coney Island"  
Admission 10c and 25c or  
TWO for 10c and 36c

Coming Soon  
WILL ROGERS in  
"The Connecticut Yankee"





# MINER SPORTS



## BLUEJAYS NOSE OUT MINERS, 71-65

### WESTMINSTER TAKES BOTH RELAYS TO WIN MEET

McGregor Takes Scoring Honors With Firsts In 100 and 220-Yard Dashes and Third in Broad Jump

By B. C. Compton

Nine firsts out of a total of 16 events wasn't enough and the Miners dropped their first track and field meet of the season to Westminster College 71 to 65, last Thursday at Fulton, Mo. Jim McGregor

#### Relays

Coach Grant will take Bob Lange, high jumper, and a relay team to the Kansas Relays next Saturday at Lawrence, Kansas. As yet he has not selected the relay team.

Gregor was high point man for the meet with firsts in the 100 and 220-yard dashes and a third in the broad jump.

The Bluejays golf team apparently forgot that they had a meet and went home for the Easter Holidays, leaving the Miners without competition and the trip in vain. The four man tennis team toppled before a determined Bluejay outfit, 6 to 0. Perhaps they had their minds on getting home also.

Lack of second places cost the Miners the track meet as they were only able to score four, compared to the Jay's ten. In several events a Silver and Gold man would take first only to have the opponents clinch second and third. Track events are scored: five points for first, three for second, and one for third.

The relay races (Westminster won both) were also costly as only five points is given to the winning team. A victory in one of two would have clinched the meet for the Miners.

#### Notes of the Meet

Captain Brown proved to be the workhorse of the Miners. The popular redhead ran second in the mile then took a third in the half-mile before winning the two mile. If Coach Grant hadn't restrained him he would have run the 440 and tossed the javelin.

Jim McGregor, also proved himself willing, by winning the 100 and 220 yard dashes and then taking third in the broad jump. Then Mac ran anchor in the Mile Relay, which was next to last on the program, and finished off his days work by also running anchor on the Half-Mile Relay.

The track was in surprisingly good shape after so much rain. On the whole the times were good, taking in account the weather and the fact that it was the first meet of the season.

Helen Stephens, holder of several world records on the track and in the field, was an interested spectator. She and several William Woods students rode up on horses.

Coach Kimbell of Westminster gave this writer the lowdown on the relay races, both of which the Jays won. Knowing that Jim McGregor was to run anchor position for the Miners and could beat any of the Jay's runners, Kimbell ran his men in just the opposite order. The fastest man ran first with the slowest man competing with Mac. The explanation: knowing that Mac could beat any of the Westminster men, given an even start, the Jay's wanted to put him in such a hole

as to let their slowest man beat him.

The tennis team showed possibilities, although they were beaten in all their matches. Rain and bad weather, with the subsequent lack of practice, has handicapped the Miners no little, while the Bluejays have had concrete courts to work out on.

When the Westminster golf team failed to show up the Miners four-some engaged in a practice round. As the result, Herman Pfeifer, who was to compete in the shot put as well as play golf, got back to the field just as the meet was completed. The shot was brought back from the clubhouse, and Herman heaved it twice to take first place.

**TWO MILE RUN**—Won by Brown, Miners; Tittle, Miners, second; Mitchell, Westminster, third. Time 11:1.0

**100-YARD DASH**—Won by McGregor, Miners; Cooper, Westminster, second; Loveridge, Miners, third. Time—:10.5

**220-YARD DASH**—Won by McGregor, Miners; Foote, Westminster, second; Loveridge, Miners, third. Time—:23.3

**440-YARD DASH**—Won by C. Wolfe, Westminster; Nickel, Miners, second; Shippee, Miners, third. Time—:53.8

**880-YARD RUN**—Won by Ballman, Miners; Hudson, Westminster, second; Brown, Miners, third. Time 2:11.0

**MILE RUN**—Won by L. Barrow, Westminster; Brown, Miners, second; Tittle, Miners, third. Time—4:49.5

**120-YARD HIGH HURDLES**—Won by L. Barrow, Westminster; Martin, Westminster, second; Youngbluth, Miners, third. Time—:17.2

**220-YARD LOW HURDLES**—Won by Bishop, Miners; H. Barrow, Westminster, second; Martin, Westminster, third. Time—:27.0

**880-YARD RELAY**—Won by Westminster (Cooper, H. Barrow, Foote and Simpson). Time—1:36.7

**POLE VAULT**—Won by Payne, Westminster, Blish, Miners, second; Woods, Westminster, third. Height 10'-3"

**HIGH JUMP**—Won by Lange, Miners; Newman, Westminster, second;

Martin, Westminster, third. Height 5'-10"

**SHOT PUT**—Won by Pfeifer, Miners; Weber, Westminster, second; Jenkins, Miners, third. Distance—36'-6"

**DISCUS THROW**—Won by Jenkins, Miners; Bedsworth, Westminster, second; Gray, Westminster, third. Distance—120'-1"

**JAVELIN THROW**—Won by Machens, Miners; Simpson, Westminster, second; Woods, Westminster, third. Distance—168'-3"

**BROAD JUMP**—Won by Cooper, Westminster; Woods, Westminster, second; McGregor, Miners, third. Distance—22'-1"

**ONE MILE RELAY**—Won by Westminster (L. Barrow, Wolfe, Dunn and Hudson). Time—3:38.2

#### Tennis Results

##### Singles

Busse, Westminster, defeated Ellis, Miners, 6-2, 6-3.

Morsinkoff, Westminster, defeated Eggleston, Miners, 6-2, 6-1.

Durham, Westminster, defeated Weaver, Miners, 6-0, 6-1.

Cole, Westminster, defeated Cornett, Miners, 6-3, 6-1.

##### Doubles

Busse and Morsinkoff, Westminster, defeated Ellis and Eggleston, Miners, 6-3, 6-3.

Durham and Cole, Westminster, defeated Weaver and Cornett, Miners, 6-0, 6-1.

##### M.S.M.

Wilbur Knight, University of Nebraska baseball coach, hopes that his diamond proteges will follow instructions as closely in conference games as they do in practice sessions.

Last week he ordered candidates for the varsity nine to "hit 'em on the nose."

Outfielder Lloyd Wampler did, and the batted ball made a direct hit on Pitcher Rullel Behr's nose, breaking it badly.

##### M. S. M.

Advertise in The Miner

### INTRAMURAL SPORTS

With the coming of nice weather the Intramural Golf Tournament is now under way and with an entry of more than fifty players the tournament promises to be a success. The entire list of players and their opponents is posted on the second floor gym bulletin board. All first round matches must be played and their results reported not later than Tuesday, April 21. All players not reporting prior to this time will be disqualified. The team matches must be played before Saturday, April 25. If there is any organization with three or more forfeits the entire organization's team will be disqualified from further play.

##### M.S.M.

As a result of coming out on top in handball, swimming, and wrestling and a second best in basketball the Sigma Nu's are leading the race for the Intramural Trophy. At present they have a total of fifty points over the second place Sophomore Independents who are the defending champions. However, the cup is far from being cinched as yet for with the approach of nice weather there are a great number of events in the Intramural program to be run off in the next few weeks.

#### INTRAMURAL STANDING

Team	Total Points
Sigma Nu	149
Sophomores	96.5
Freshmen	89
Sigma Pi	62.5
Junior	60.5
Triangle	51
Kappa Sig	46
Pi K A	35
Lambda Tau	32
Lambda Chi	28
Mercier	27
Senior	21.5

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From Rolla to Kansas City For Example:  
Station Day Rate 90c; Sunday and Night 55c  
Saving 35 cents  
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29c and 45c

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**ALLISON**  
The Jeweler



## "Sol" says: "Drink at SCOTT'S Fountain"

### PUBLIC UTILITY

Continued from page one

Mr. Porter began the subject of valuation with a tip to the student about to enter the field. He told them to form their own opinions of Economic Principles rather than excepting supposed previous facts. This will relieve the bore or monotony of the work stated Mr. Porter.

The Public Utility today is a "regulated Monopoly over unlimited competition". Too much competition led to state regulation. This system of regulation is handled directly by commissions within the state. The companies operating within a state have received the right to do so from the Public Utility Commission of their state. They are placed under territorial operative restrictions. Also the profits of the company are regulated, even limited.

Mr. Porter mentioned several factors which enter into determining the value of a plant, or supplying utility. To a large extent, he stated, the location of the utility determines its value. However, the value of the services rendered must

also be taken into consideration in the valuation. In this valuation the desire for the product, and market value enter into the determination to a great extent. The term 'market value' here refers to other products which are used in the production of the service rendered.

Determination of a rate is based upon the idea "a fair return on the investment made". The Public Utility attempt to keep their rates at a reasonable figure.

Mr. Porter closed his lecture by pointing out that it is impossible to actually determine value. No definite formula exists for valuation, so that reasonable judgment is the best guide.

—M. S. M.—

### MINE IMPROVEMENT

Continued from page one

imeter for the determination of the viscosities of oils, stormer viscosimeter for the determination of the viscosities of drilling muds, distillation equipment for oil and gasoline analyses, distillation equipment for determining oil and water content of sands, flash point apparatus, pour point tester, Union calorimet-

er, dead weight pressure gage tester, critical flow orifice prover, Sycoclinograph for determining the verticality of bore-holes, precision barometer, surface tension measuring equipment (tensiometer), precision balances and other miscellaneous items.

The Mining and Petroleum Engineering Departments are to be congratulated upon the very distinct improvements they effected in their laboratory facilities. These improvements will materially help M. S. M. in maintaining the very high standing it has always enjoyed among the engineering schools of the country.

—M.S.M.—

### DR. BARDSLEY TALKS

Continued from page one

countered on this trip; sunshine, dust storms, rain and finally two inches of snow.

Dr. and Mrs. Bardsley returned to Rolla via St. Louis where they visited Dr. Bardsley's mother Sunday.

It is anticipated that the Committee will meet at San Francisco sometime during the summer of 1937 when the entire Society will

### BULL SESSIONS

Continued from page four

formed at Vassar. Indignant outbursts followed, and the name was changed to the "Ladies Auxillary of Future Veterans." Loudest in denunciation, of course, were the other veterans' groups.

#### No Disrespect Intended

"Had the students confined their insulting remarks to the veterans, we would have laughed it off," said Joe E. Murray, former national chaplain of the Disabled American Veterans of the World War, "but they have brought in the name of a group of women we hold sacred." No satire or disrespect was intended, replied Louis J. Gorin, Jr., national commander. Gorin was unperturbed by American Legion threats of vigorous complaint to Princeton authorities, kept three secretaries busy sending instructions to new chapters.

The VFW's announced intention of establishing a chapter in every college in America seemed likely to succeed. Harvard, Williams, Union, Pennsylvania, Georgetown,

hold its meeting on the west coast.

Stanford, Georgia Tech, Southern Methodist, Connecticut College for Women, New York University, Chicago, the University of Wisconsin, and Washington University of St. Louis were quick to get on the band wagon, with others coming fast.

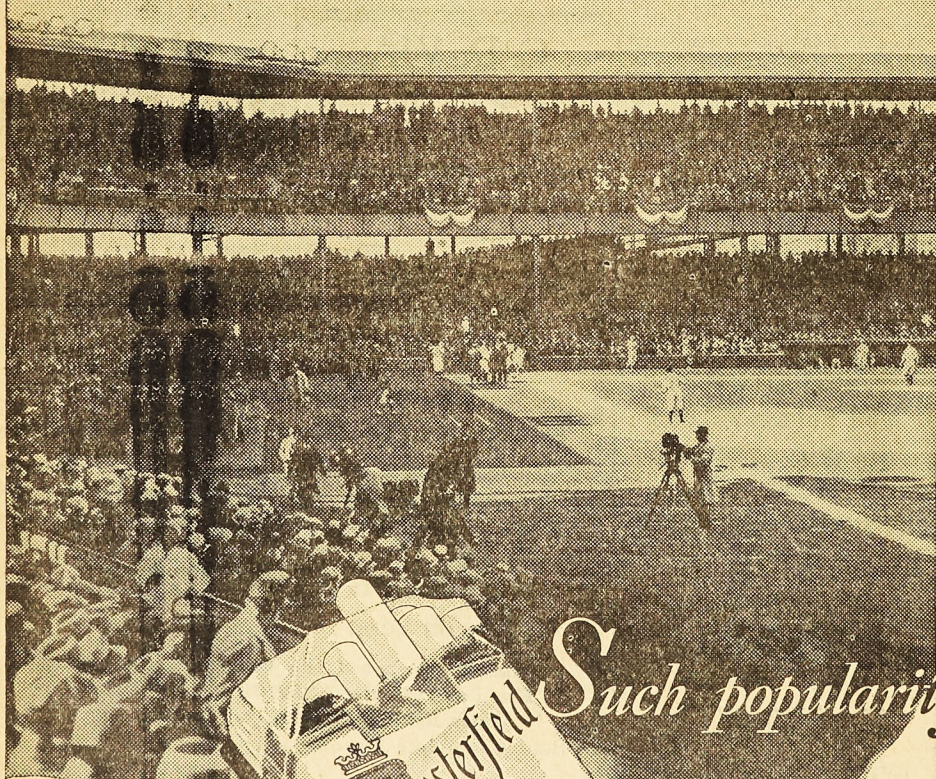
#### Fifty-Fifty

Criticism and approbation were divided about fifty-fifty, with most support coming from students, faculty members and outside liberals, charges of Communism and "un-Americanism" from the American Legion and other veterans' organizations.

Mrs. Mathilda Burling, president of the New York Chapter of Gold Star Mothers, called the movement "unpatriotic and ill-mannered," and Jas. E. Van Zandt, commander of the Veterans of Foreign Wars, said the students were "too yellow to go to war." The future veterans replied that Mr. Van Zandt was a Red, challenged him to debate.

A self-appointed strong-arm squad of athletes attempted to prevent formation of a VFW chapter at Rice Institute, Texas, with a barrage of mud-balls and cries of "Communists!", but were successfully repulsed.

..the President of the  
United States throws out the first  
ball...and the 1936 season is on



Yankees vs. Senators  
Griffith Stadium  
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Thrills never to be forgotten... perhaps a home run... or an electrifying no-hit game... perhaps some callow recruit, unheard of in the big time, smashing his way into the hearts of the fans.

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millions who watch it, and  
rewards the stars who play it.*

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*More and more smokers, men and women  
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