



17 Nov 1937

The Missouri Miner, November 17, 1937

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THE MISSOURI MINER

MISSOURI SCHOOL OF MINES & METALLURGY

Z385

VOLUME XXIV

ROLLA, MO., WEDNESDAY, NOVEMBER 17, 1937

NUMBER 10

Wagner Talks Before A.S.C.E.

PRESENTS PROSPECTUS FOR FUTURE OF C. E.'S

Mr. E. C. L. Wagner, Manager of the Association of General Contractors of Missouri, brought illustrative anecdotes and good advice to the members of the student chapter of the A. S. C. E. in the Physics Lecture Room, last Tuesday night, Nov. 9th.

With assurance and an admirable frankness, Mr. Wagner discussed the differences between an engineer and a contractor. The engineers, he said, find their pride of achievement in figuring things out; the contractor finds his in doing—in building the ideas of the engineer into concrete, material form. The contractor, to be successful, has to have a peculiar power of analysis to meet the problems which confront him—a power which Mr. Wagner believes is innate. We were told we go to school to learn how to learn, for there is no formal statement of a problem in contracting or in engineering. There is only an evidence that something is wrong, or something is lacking. Therefore the problem must be recognized and analyzed, set up in recognizable terms, the solution found, and the solution applied.

Then Mr. Wagner turned to current problems of the contractors.

Continued on page four

Capt. Hodge Explains Color Photography

The Friday, Nov. 5th meeting of the Photography Club featured a very interesting talk given by Captain Hodge. The subject was color photography, a field in which Captain Hodge has done much research work and achieved excellent results in the form of a wide variety of color photos with which he illustrated his talk. The photos were shown with the aid of a slide projector, and a motion picture projector equipped with an attachment for projecting microscopic views was used to examine the structures of the films.

Captain Hodge explained four of the most common methods of taking color photos. They are the Dufay, Agfa, and Kodachrome methods which produce transparencies, and prints.

The Dufay color film consists of a fine, transparent color screen coated with light sensitive emulsion. The screen is composed of a checkerboard of tiny red, green and blue squares numbering over 500,000 to the square inch. When the film is exposed to light, each square allows only its corresponding color to pass through and affect the emulsion behind it. After the film has been developed and reversed, the emulsion has been darkened to varying degrees of transparency and controls the amount of light which can be passed through each

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Theta Tau

Theta Tau Fraternity held its meeting Thursday evening in the Club Room. The following ten men have been pledged:

R. C. Cornett, R. D. Dallmeyer, H. L. Gerwin, J. R. McCloskey, G. E. Machens, D. R. Jaenecke, A. E. Rhodes, W. D. Waters, J. G. Miller, H. S. Kidd.

The pledges delivered speeches and afterward the chapter held its regular meeting.

Next Thursday the fraternity banquet will be held at the Penant Tavern, on which occasion Robert Paul Lyons Jr. will be the principal speaker. Mr. Lyons is an M. S. M. graduate, a member of Lambda Chi Alpha fraternity, and is General Manager for the Pendergast Cement Company.

St. Pat's Board

The St. Pat's Board held a short meeting Wednesday, November 10, to complete arrangements for the Thanksgiving Ball to be given Nov. 20th. They voted to admit spectators to the dance for an admission price of 25 cents. The only other business was a discussion of plans for more or less permanent decorations to be used in the gym in the future.

M.S.M.

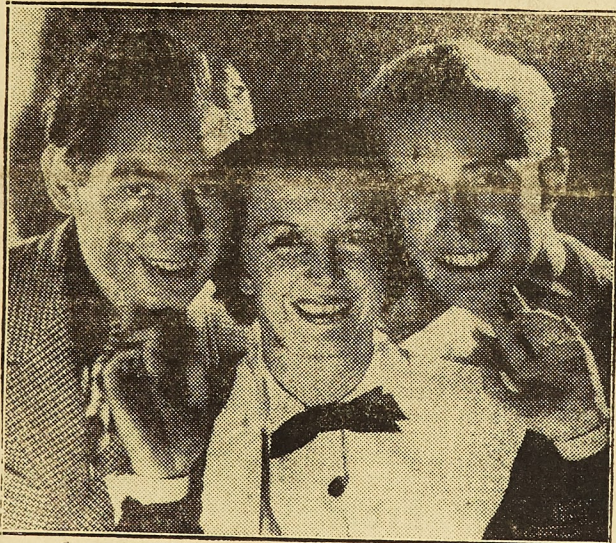
NEWS OF A. I. M. E. MEMBERS

Roger E. Barthelemy, mining engineer, who recently returned from France, is engaged in consulting work in Lima, Peru.

Frank C. Mulford '23, of New York City, is mining consultant in the research department of Time,

Continued on page four.

Pipe Organ "Swing"



Emil Velazco, his \$25,000 portable pipe organ, and his orchestra of twelve musicians will play for the St. Pat's Board Dance on Saturday, November 20th.

With the aid of three expert mechanics, Mr. Velazco will reassemble his famous "organ on wheels." It takes these experts only fifteen or twenty minutes for the assembly. And, if we are to believe the reports which have reached us from other parts of the country, local dance lovers are in for an unusual musical treat Saturday night, Nov. 20th.

This is the first time this famous orchestra has played here, in fact it is Velazco's first dance tour and heretofore his fans have had to be content with hearing him on the NBC and CBS network programs from various New York hotels and "hotspots."

It is an even bet that the technically inclined, as well as the dance and music lovers, will crowd around Velazco Saturday night, Nov. 20th, plying him with a thousand assorted questions about his famous portable pipe organ, the first and only one of its kind in existence today, built after many years of experimentation, especially for the celebrated composer, organist, and maestro. Many will be anxious to know about cycles, impulses, horsepower, currents, voltage, tone volume, the speeded action, and the many other technical innovations, which make this instrument possible and practical for a tour of one nighters.

Musically, Velazco and his orchestra are comparable to the finest in the country and a recent comment in the N. Y. Daily News praised him thusly: "When the organ is played by that master of the instrument, Emil Velazco, cares and troubles of the day 'fold their tents like the Arabs and steal silently away.'"

At the present time Velazco's orchestra broadcasts every night at nine o'clock over Radio Station WIL. The group may also be heard over KMOX at 10:15 p. m. on Tuesdays and Saturdays and at 11:45 p. m. on Thursdays and Sundays.

Helen Gray, the charming feminine vocalist, should prove to be very popular. Besides having the distinction of being a Paul Whiteman audition winner, Miss Gray is noted for her delightful personality and alluring manner. The Miners will appreciate such an added feature to the unusual orchestra. In addition to Miss Gray, the dance band features a masculine rhythm singer from New Orleans in the person of Earl Partain.

It is hoped that a large crowd will enjoy the Thanksgiving Ball and thereby express a desire to attend similar dances in the future. The St. Pat's Board wishes to present desirable social entertainment for the Miners and townspeople. If this dance proves to be a success, there will be more of a similar nature during the school year.

Priestley Delves Into Metaphysics

English Novelist Applies Space-Time Theories To Modern Civilization in Second General Lecture

The English novelist, J. B. Priestley, lectured here last Saturday night on "A Writer Looks at the World". He started by pointing that the world to-day is a great deal like Babel in Bible times. We are the most ingenious people that ever lived, but instead of different languages we have different points of view. He said that we were in an age of conflict where the most desirable emotion was hate. Even in the U. S. there is hate. He said that Civilization was near collapse because the understanding between nations was dwindling. He stated that one reason for this was that men were suffering from an inert despair not the political reasons that the nations set forth. There is no longer a feeling of unity because men no longer feel united. Mr. Priestley contended that the unseen world, men's consciences,

is shaping the seen world.

He said that there the point of view of the Middle Ages is gradually being destroyed. He said that although the Middle Ages were barbaric in some ways they possessed a certain synthesis that bound the people together in a certain unity. Mr. Priestley said that our emotional life was determined by our cultural life. He went on to say that as science grew Medieval culture declined. The trouble with science replacing this culture is that it is indifferent to values, i. e. on one hand it will find a cure for cancer while on the other it will make poisonous phosgene gas. He then drew a

Continued on page six

ALUMNI HAVE DINNER IN OKLAHOMA CITY

A group of loyal MSM rooters gathered at the Hotel Biltmore in Oklahoma City to talk over old times and to enjoy a dinner just before the game with Oklahoma City University on the night of Friday, November the 5th.

Those present were Mr. and Mrs. M. L. Atkinson, '25, Mr. and Mrs. K. A. Ellison, '25, Mr. and Mrs. W. B. Crutcher, '24, Mr. and Mrs. J. K. Murphy, ex-'25, Mr. and Mrs. J. F. McDonald, '33, Messers Herman Kaveler, '27, (Sheriff) Lee '27, (Ned) Johnson, '92, John Reid, '93, Bill Niece, '20, Jack Connelly, '31, R. H. Brumley, '25, Paul Terry, ex-'25, Coaches Gale Bullman, and Percy Gill, and Prof. Chas. Y. Clayton, '13, were present.

Power Plant Described

MR. MEYEROND OF UNION ELECTRIC DISCUSSES ADDITION TO CAHOKIA PLANT

The local chapter of the American Institute of Electrical Engineers held their third meeting this year last Wednesday evening, Nov. 10th, in Norwood Hall. In a short business meeting the chapter decided to place a group picture in the Rollamo.

After the business meeting Mr. Meyerond of the Union Electric Co. of St. Louis, presented a talk on the installation of a new power unit in the Cahokia power plant of St. Louis. The new unit is a turbo-generator, weighing about 1,000,000

Continued on page six

When? What? Where?

WEDNESDAY, NOVEMBER 17

Alpha Chi Sigma, 7:00 P. M., Chem. Building
Blue Key, 7:30 Club Room
Theta Tau, 5:00 P. M., 227 Met.

THURSDAY, NOVEMBER 18

Theta Tau Initiation, 5:00 P. M., Club Room
Senior Class Meeting, 7:30 P. M., 104 Norwood

FRIDAY, NOVEMBER 19

Motion Picture, 11:00 A. M., Auditorium
by United Electric Coal Co.
Football—Maryville, here, 2:00 P. M.
Photographic Club, 7:30 P. M., Club Room
Alpha Lambda Tau Dance

SATURDAY, NOVEMBER 20

Thanksgiving Dance, 9:00 P. M., Gym

MONDAY, NOVEMBER 22

Community Chorus, 7:00 P. M., 104 Norwood

TUESDAY, NOVEMBER 23

A. S. M. E., 7:30 P. M., Mech. Hall
A. S. C. E., 7:30 P. M., Norwood
Miner Board, (Editorial) 7:30 P. M., Power Plant

DON'T FORGET THE DANCE SATURDAY NIGHT

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

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LET'S SPLIT IT UP . . .

Often things exist for such a long time that they are taken for granted without the least thought given to the fairness or burgen being placed upon a few. It has been the editorial policy of this paper this year to be concise in all comment relative to topics concerning student interest, and in this present comment the need for conciseness is apparent. With the increase in enrollment a heavy load has been thrown upon, it should be said a heavier load has been thrown upon, the same faculty members that have carried the majority of the load in the past. The same group continue to have their 'pension hour' off. The best example of this 'overloading' may be found over in the Freshmen Chemistry classes where the Two-hundred plus freshmen are being taught by 'one professor'. Other departments handling this same group have an ample number of professors to handle the load. Other departments may be examined to find the same conditions existing in upper class work. This is not fair to the student, or to the professors involved. Would it not be a good idea to examine the conditions inside our buildings along with the consideration of the exterior?

—M.S.M.—

GOING HOME SOON—BE CAREFUL

In another week fortune smiles our way with a vacation. It means a trip home and a week-end with the family. The beauty and cheer of this vacation may easily be spoiled by a moments forgetfulness. As you get into the car and speed toward your home keep in mind the potential power and the possible death-factor that you are controlling. Waste a few minutes and credit them to your insurance for a completely happy week-end. Keep in mind the best insurance policy available . . . BE CAREFUL.

GIRLS ARE LIKE NEWSPAPERS

Because—
They are healthier and stronger than they used to be.
They have many type faces.
They are worth looking over.
Back numbers aren't in demand.
They try hard to be up-to-date.
They aren't afraid to speak their minds.
They can make or break a man.
They have much influence.
A little color helps their looks.
They carry news wherever they go.

If they know anything, they tell it.

Every guy should have one and leave his neighbor's alone.
—Harper's Harp.

A Kentucky backwoods woman, the soles of whose feet had been toughened by a lifetime of shoelessness, was standing in front of her cabin fireplace one day when her husband said:—"You'd better move your foot a mite, Maw; you're standing on a live coal.
And she says:—"Which foot, Paw?"

Miner Board Expanding

The Miner Board has started the year with an unusually large number of tryouts. Since eleven members of the present Miner Board and Staff will graduate this year, eleven vacancies must be filled from about fifty tryouts. The selections are made upon the basis of individual merit.

In order to qualify for membership in the editorial department, in which the largest number of vacancies occur, each tryout must turn in at least fifteen column inches of material per month.

The selections in the other departments depends upon the efficiency and promptness with which the tryouts carry out their assignments.

The majority of the new men have been trying out for the editorial department, under the direction of J. R. McCloskey. This department takes care of the writing of news, reports, editorials, and other written material.

The tryouts for this department are: Donald Crecelius, Leroy Allen, Wilbur Owen, Arthur Retzel, John Bell, Warren Loveridge, John Ench, A. H. Bursten, Harold Nicholas, Fred Finley, Marshall Jeffers, R. O. Gruetzemacher, Allen Summers, Wayne Bennetsen, Nelson Wood, Robert Kennedy, Dean Newnan, Leslie Payne, Norbert O'Connor, Robert Eldridge, and Smith Halfhill.

The tryouts for the business department, under the direction of E. W. Simpson, are Collins Burton, Paul Dowling, Randle Egbert, Rolland McFarland, Leonard Stohldrier, and Robert Miller.

H. W. (Butch) Kuhlmann is at the head of the circulation department, which handles the folding, addressing, and mailing of the papers. Tryouts for this department are Chris Wattenberger, Frank Steimke, Anthony Iskrazak, Robert McMichael, Lawrence Whitlock, William Pollack, Russell DeWitt, Peter Machens, Albert Kidwell, Mike Henning, and Howard Scott.

The advertising department solicits advertisements from local business houses. The manager of this department is H. D. Bliss. Tryouts are Joseph Myrick, Robert Westwater, Cecil Jennings, Nathan Jaffe, Robert Gardner, and Russell Gund.

—M.S.M.—

Gleanings From Our Exchanges

By Carl Cotterill

Professionalization of College football players was given a serious blow when the University of Pittsburgh announced that it will forbid and cease to give "special grants" to football players. Coach James Hagan declares, "If it means weakening of our teams, there will be no criticism of our coaches for defeats which may come our way."

Only two days later (after Pittsburgh U. announced "house cleaning"), Carnegie Tech, also located at Pittsburgh, sanctified more open solicitation of athletes.

Captain: "Men the enemy around us are as numerous as peas."
Smart Private: O. K. men, shell them.

A pinch of salt is greatly improved by dropping it in a sten of beer.

A Junior at Ohio State U. attended the wrong class every day for three weeks. He had taken this course, completed it and received a B two years before. He explained that he had slept thru most of the classes and hadn't gotten around to getting a text. (A.C.P.)

Engineers have a fine method of

YOU KNOW THEM TOO

By Ray E. Vaughn

Our attention was recently focused upon a man brought into the spotlight by his representation of the local chapter of the Tau Beta Pi Fraternity at the National Convention held at Texas U. Bert Lanier is one of the few fellows who can drop out of school and successfully stage a come-back.

Bert entered school in '31, coming from Joplin High School, and dropping out after his first year. Part of the next three years were spent in the employment of the U. S. Coast and Geodetic Survey in various parts of the West.

The fall of nineteen thirty-five found him back in school to work towards his degree in civil engineering started in '31. His freshman and sophomore years were spent in laying the foundation for an excellent scholastic standing.

During his junior year Lanier served as corresponding secretary of the Theta Tau Fraternity, vice-president of the A. S. C. E., a member of the Independent Governing

board of the Engineers' Co-operative Club, secretary of the Officers Club, a member of the Tau Beta Pi Fraternity, and student assistant in the C. E. Department; and was the highest ranking man in the Junior Class.

This year finds Bert in just as many extra-curricular activities, but holding higher positions. He is a Miner-Rollamo Trustee, regent of the Theta Tau Fraternity, president of the A. S. C. E., president of the Independents Governing Board, and secretary-treasurer of the Student Council. He is rated superior in intelligence, energy, initiative, leadership, reliability, and personality; and is expected to gain greater success in the executive and designing fields, or as an army officer.

Miners, if you don't know Bert, get acquainted with him during his last seven months at M. S. M. Following in the footsteps of a man with so enviable a record is worth while.

testing their liquor. 20,000 volts are connected over a pint. If the current leaps across the product is poor.

If this discharge causes a precipitation of lye, tin, arsenic, iron slag, alum and rubber the whiskey is fair.

If the liquor chases the electricity back to the generator, then they've got good whiskey.

—Gold Pan.

At forty a woman stops patting herself on the back and begins under the chin.

It is rumored at Kirksville that the T G I F (Thank God It's Friday) Club will soon have a rival which will meet on Monday. It will be called the O H I M Club. Take your guess and I'll take mine. It must be the Oh Hell It's Monday Club.—S. W. Standard.

A few excerpts taken from the Central Collegian under caption "Campus Opinion" and signed, "A Howard-Paynite" follow:

Dear Editor: It is my opinion that the student body lack something this year; dating . . . There were only three couples downtown last Friday, while on Sunday, only

thirteen boys called for dates at Howard-Payne. We at Howard-Payne can't understand this difficulty. Although we may be wrong, we believe that we have fairly good appearances and most of us dance fairly well as well as being able to converse on "timely" subjects. Yet the boys go into confinement at McMurry or wander down town alone . . . We understand that some time must be spent in study, but surely the pursuit of wisdom can stop now and then over week-ends! The boys must be either broke, tired or disinterested. Central College where the word "jelly" used to be most popular, seems to be dying socially. What can we do to pep it up?

(Signed) A Howard-Paynite

And so we close with the benediction of the Skunk—"Let us spray."

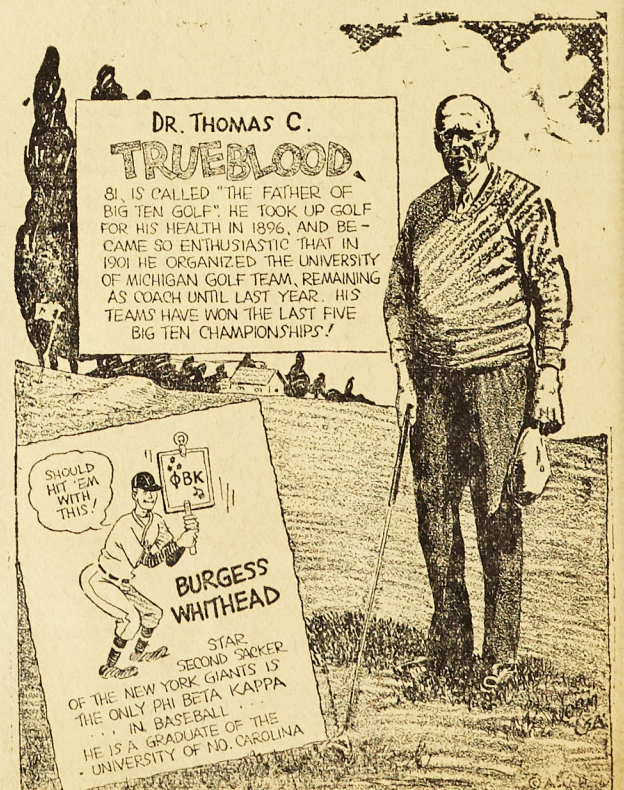
—M.S.M.—

He: "There's a lot of electricity in my hair."
She: "There should be. It's connected to a dry cell."

Boy friend: "What's wrong? Why the gurgling noise?"

Girl friend: "I'm trying to swallow that line."

Eyes Over The Campus



SPRINGFIELD HUMBLLED, 35-0

Miners Win Their First Conference Game Since Entering League

Prof.: I hear you study most of the time.

College student: Yes sir.

Prof.: It seems you are neglecting your football.

PROGRAM

ROLLAMO THEATRE

Sat. and Sun. Matinees 1:30 & 3:30
Matinee Every Tuesday 2:30

Selected Short Subjects on
Every Program

NOVEMBER, Month of Hits

Last Showing Friday, Nov. 19

"THE LIFE OF EMILE ZOLA"

Saturday, Nov. 20—1 Day Only

Matinee and Night
Double Feature Program
Will Rogers in

"HANDY ANDY"

Bob Allen in

"LAW OF THE RANGER"

Sun. and Mon., Nov. 21 & 22
Joan Crawford in

"THE BRIDE WORE RED"

with Franchot Tone, Robert Young
and Billie Burke

Tuesday, November 23rd

"ONE MILE FROM HEAVEN"

with Claire Trevor, Sally Blaine,
Bill Robinson

Wed. and Thurs., Nov. 24 - 25

The Most Glorious Musical
Romance of the Year!

**"HIGH, WIDE
AND HANDSOME"**

with Irene Dunne, Randolph Scott,
Dorothy Lamour, Ben Blue
Also "From Favorites" and
News Events

Matinees Thursday 1:30 & 3:30

Admission 10c and 30c

Nights 7 and 9; Adm 10c and 35c

Thirty-five to nothing was the score by which the Miners chalked up a conference victory over the Springfield Teachers last Saturday. Of course, the fact that every other team in the M. I. A. A. has run up a similar score against Springfield does not detract from the impressiveness of the Rolla victory.

The first quarter netted the Miners two points when Murphy tackled a Springfield man behind the goal-line—after the Miners had tried four times to put the ball over from the six yard line and the Teachers had taken the ball on downs. Also outstanding in the period were several nice end runs which netted good gains, three fumbles by the Miners, a Miner punt blocked by Springfield, and penalties which cost the Miners 20 yards.

Springfield made two more goal line stands in the second quarter, repulsing the Miner attack. The third time they could not stop Cunningham who plunged over from the one yard line. The Miners scored again before the half, this time Cunningham, after gaining ten yards, lateraled to Hart who ran 21 yards to score.

During the third period the Miners continued the free-scoring and added fourteen more points to the score. Cunningham, after running the ball 35 yards, lateraled to Prough who sprinted ten yards to score. The only pass the Miners completed all afternoon brought the next touchdown, Cunningham to Lintner from the 20 yard line. The Miners donated 35 yards to charity this period after going penalty-less the entire second quarter. They also made two fumbles.

Springfield's much-trod-on goal line was again crossed in the fourth period when Ladd galloped 30

yards, then lateraled to Pomeroy who made the remaining eight yards to the goal. Again the Miners gave, 30 yards this last stanza, not to mention two fumbles. Springfield made their only scoring threat early in the third quarter when they had the ball on the six yard line but couldn't get it over in four tries.

Jim Taylor made good three place-kicks after touchdowns during the game.

The lineups:

Miners	Pos.	Springfield
Murphy	L.E.	Ellison
Prough	L.T.	Hardin
Kirwan	L.G.	Downing
Axthelm	C.	Barnwell
Curtis	R.G.	Brill
Flanary	RT.	Fox
Lintner	R.E.	Russell
Koziatek	Q.B.	Newman
Ladd	L.H.	Whipple
O. Taylor	R.H.	Richesin
Baumstark	F.B.	McCall

Score by quarters:
Miners 2 12 14 6—35
Springfield 0 0 0 0—0

Substitutions: Miners—Spafford, Schaller, Pomeroy, Stallman, Kieslar, Hart, Cunningham, J. Taylor, Rogers, Klug, Loveridge, Wilson, Dickman, Donyanovich, Machens, Hartman, Volkmar, Ridley, Hass, Wolf, Nickola, Falkingham. Springfield—Scott, Grider, Stair, Harmon, Lechner, Cox, Wilson, Denny, Swinea, Cassada, Coose, Reed, Graves, Brant, Hazeltine.

Scoring: Touchdowns—Cunningham, Hart, Lintner, Prough and Pomeroy. Points after touchdowns—J. Taylor, 3. Safety—Miners. First downs—Miners 17, Springfield, 5. Forward passes attempted—Miners 14, Springfield, 17. Forward passes completed—Miners one for 21 yards, Springfield, 3 for 21 yards. Passes intercepted—Miners 3, Springfield 1. Penalties—Miners 9 for 85 yards, Springfield, 2 for 15 yards.

M.S.M.

CROSS COUNTRY RUN

During the intermission at the half of the football game Saturday thirty men competed in the intra-mural cross-country run. The course which was slightly under a mile, was laid out over the campus, the finish being in front of the football stands.

Setting a very fast pace at the start, and keeping it up, Armin Tucker breezed to an easy victory in four minutes and forty seconds. The field was widely scattered, and after Tucker took the lead at the half-way mark he was never headed. Pholman, Juniors, took second; Payne, Sophomores, was third, and Hessman, Freshman, and Sihoy, Freshman were fourth and fifth respectively.

There were a total of fifteen places for which points were awarded toward the intra-mural athletic trophy.

By the size of the field it was evident that this new phase of the intra-mural program was favorably received by the students, and it should become a permanent addition to the program.

M.S.M.

Judge: "What induced you to strike your wife?"

Husband: "Well, your honor, she had her back to me, the frying pan was handy, and the back door was open, so I thought I'd take the chance."

M.S.M.

Marine: "Don't bother me. I'm writing to my girl."

Sailor: "But why are you writing so slowly?"

Marine: "She can't read very fast."

CAPTAIN SADLER'S LECTURE ON TOPOGRAPHIC MAPS

Thursday, Nov. 4, at the second A. S. C. E. meeting of the week, Captain Sadler of the Geological Survey lectured on map making and reproduction of maps.

Map making in the U. S. was begun by Captain John Smith who made a map of Chesapeake Bay. In 1879, Congress recognized the growing need for maps and created the Geological Survey. Each year since 1889, Congress has made a specific appropriation for topographic surveys. Since then methods and instruments have been greatly improved and a regular method of procedure has been adopted, and scales and contour intervals have been standardized.

The plan of the Geological Survey is to make a topographical atlas of the United States, each sheet to be bounded by latitude and longitude of simple fractions of a degree, and each approximately sixteen by twenty-two inches.

All maps are actually drawn in the field. At present only 30% of the United States has been mapped adequately; 25% will need to be remapped; and 45% has not been mapped, although most of the states cooperate with the Geological Survey.

The first step in making a topographic map is the establishment of horizontal control. This was done in Missouri with transits.

Establishment of vertical control by use of levels follows. The Survey uses the Invar strip level rod, automatically eliminating corrections necessary for use of the Philadelphia and New York rods. The Survey has also developed a better type of level for their use.

Then the Topographer takes over. After a contour interval consistent with the country has been chosen, the ground work is done with a plane table. In some parts of the U. S. the plane table cannot be used on the ground, but the topo-

grapher operates from tree-top "crow's nests."

Captain Sadler showed slides to illustrate the instruments used in a complete survey, and the various positions which the topographers must occupy to run the traverse, with their adaptations of the instruments to the topography of the country.

Captain Sadler stressed the great aid of airplane photographs to the topographer and prophesied that in the future much of the topographic map making will be done from airplane photographs by the Cardograph, or stereoscopic method.

After the area has been mapped, the printers must print the maps. At present three different copper plates are made to engrave the three-color sheets showing culture, drainage and elevations.

Everyone who attended learned much from his lecture.

"Eats" were served in the Blue Room—Coffee and doughnuts.

M.S.M.

Red sails in the sunset; in fact, she sails into anything with her heart, soul and body.

ROLLA

LIQUOR STORE

(ROLLA'S OLDEST)

118 West 8th Street

Across from Hotel Edwin Long

Phone 62

Choice Selection

Liquors - Wines - Gins

Also

All Brands of

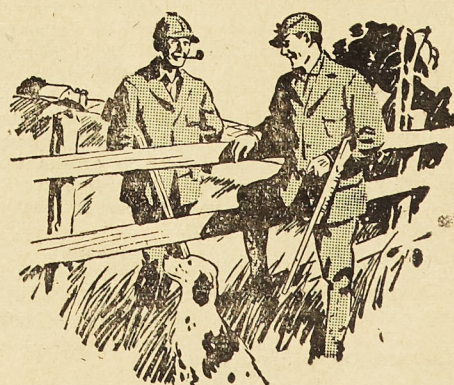
Beers and Ales

C. D. VIA

The House of a 1000 Values

ROLLA, MO.

SPORTSMEN ATTENTION!



It's Time To Get Ready

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WAGNER TALKS BEFORE A. S. C. E.

Presents Prospectus for the
Future of The C. E.'s

Continued from page one.

which the new social order has engendered. He discusses three most important problems.

1. The governmental tendency to use its own forces to do its work instead of letting it out to contractors, although it has been shown that letting it out would be cheaper. Most engineers are now in public service. In Missouri, it has been shown that contractors are able to do work ten percent cheaper than can the state.

2. The poor class of labor. No longer can the labor be driven; it must be coaxed. Contractors on public works have been required to use relief labor, much of it incompetent. This regulation is being relaxed with the growing evidence that such labor caused less efficiency and economy.

3. The cost of accidents on construction work. Mr. Wagner explained that in pursuance of his organization's aim to work for the good of the contracting industry, his organization has set standards for accident prevention. Highway contractors in Missouri do work valued at \$10,000,000, and pay approximately \$700,000 for Workmen's Compensation Insurance. Every time an accident occurs, it shows that there has been some inefficiency in the organization. And it is not only in the amount of insurance that the careless contractor pays, for he also pays the less evident costs for lost time, loss of good will, lost confidence, and a corresponding increase in his insurance rates. At all times courtesy pays.

Mr. Wagner climaxed his address with the guiding precept, "Be the kind of a fellow that the other fellow would like to be."

Besides being the manager of the Contractors' Association, Mr. Wagner is also the president of the newly formed Mid-Missouri Section of the A. S. C. E., and has promised that the society will hold at least one meeting at Rolla during the coming year.

Mr. McDill, a former student who was very active in the school a few years ago, also attended the meeting in his capacity as official contact agent for bringing speakers before the M. S. M. Chapter of the A. S. C. E.

After the address, "eats" were served in the Blue Room.

PHOTOGRAPHY CLUB

Continued from page one

square of the screen. The original film can then be used as a slide and projected, forming clear, brilliant pictures.

Excepting for its use of starch gains as a color filter, the Agfa process is similar to the Dufay, but the Agfa photos lack the brilliance of the Dufaycolor films. The Kodachrome photos, while also not as brilliant as the Dufay have the advantage of being adaptable to motion picture use. The Kodachrome film is coated with three layers of emulsion differing in their color sensitivities, and requires a more involved method of development.

The Eastman Washoff Relief process is by far the most complex and expensive of the four methods, but it finds its place in making prints, which cannot be made by the other means. Captain Hodge estimated that the cost of a print would be about \$125 whereas a transparency could be made for \$4.

During his talk, Captain Hodge exhibited films representative of all four types and demonstrated the superiority of all four types and demonstrated the superiority of the Dufaycolor photographs. The

THE BRIDE WORE RED



Joan Crawford

Joan Crawford as the bride in "The Bride Wore Red", her new starring vehicle, which will be the headline attraction at the Rollamo Theatre, Sunday and Monday, Nov. 21 and 22. Based on Ferenc Molnar's famous stage play, "The Girl From Trieste," the new drama shows Miss Crawford as a waterfront cabaret singer who becomes a lady overnight. Franchot Tone and Robert Young have the male leads.

M.S.M.

NEWS OF A.L.M.E. MEMBERS

Continued from page one.

Inc.

J. Warren Frame '37, graduate of the Missouri School of Mines, is enrolled in graduate work at Lehigh University, Bethlehem, Penn.

L. L. Ellis, Jr. '30, junior engineer with the Cerro de Pasco Copper Corporation, has been transferred from Morococha to Casapalca, Peru.

R. R. Payne '30, has returned from his position with the Cia. Minera Unificada del Cerro de Potosi in Bolivia and is in Washington, Ill.

Isaac W. Friedman '32, formerly metallurgist for the International Smelting and Refining Co. at East Chicago, Ind., is employed by R. Lavin and Sons, Inc., Chicago.

E. J. Haug has completed three years on a fellowship of the U. S. Bureau of Mines at Rolla, Mo., and is now engaged in flotation research for the St. Joseph Lead Co., at Bonne Terre, Mo.

T. O. Seiberling '33, formerly of the Northern Peru Mining and Smelting Co., has accepted a position in the engineering department of the Leadwood, Mo., division of the St. Joseph Lead Co.

E. M. Lindeneau, '26, has resigned as manager of Mauricio Hoenschchild, S. A. M. I., large lead producers of Atocha, Bolivia, and is returning to Phoenix, Arizona. Before going to Chile in 1929, Mr. Lindeneau was with the United Verde Copper Co.

Lloyd R. Lacy, '30, who has been with the Phillips Petroleum Co., at Seminole, Okla., is mechanical engineer in the production department at Bartlesville, Okla.

William H. Lenz '33, has resigned as research engineer with the Ohio State Engineering Experiment Station in order to become research metallurgist for the Fansteel Metallurgical Corporation, North Chicago, Ill.

M.S.M.

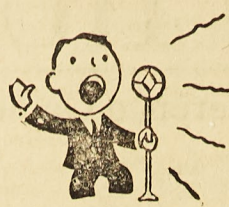
1st Recruit:—"Aw c-mon tell me about that new girl of yours."

2nd Recruit:—"Why should I?"

1st Ditto:—"Because I'm your buddy."

2nd Ditto:—"No siree, my girl ain't no buddy's business."

slides shown included scenes from the M. S. M. campus, the Grand Canyon, Mexico, and Yellowstone National Park. As the final feature, Captain Hodge presented motion pictures of Yellowstone National Park, and Grand Canyon, the latter photos being color. The club then adjourned, after declaring its first program a real success.



STATION

J-I-G

Chatter About This'n That

Getting tired of saying "hello again", so I'll just say "hi", this time, and let it go at that. Oh well, we had one bit of swell entertainment on top of another this week-end, didn't we. Those of you who didn't see the Varsity show can put yourselves down as missing one of the best stage presentations ever to be put on the screen. Anyway it was a grand production, and here's hoping we get to view some more of them, which reminds me of the Samoa ditty. Think of something opposite from "snazy" for that one please, and pass the word around.

Oh yes, another to add to your list of shouldn't have missed, is the Junior Club dance. Noticed a peculiarity there—the "Big Apple" in formal attire—No kidding, the dance was built on the dance rage, yet everyone was supposed to wear formals. That is, all except the guys that pay and pay, to get the gals in these things.

The vote went about fifty-fifty on the dress, so I guess it doesn't make a whole lot of diff as long as the affair is a thing of the — quick, boy, a word.

Anybody catch sight of the wandering troubador with the gitt-fiddle slung over his shoulder (as if he were going squirrel hunting) last Sunday evening? — maybe he was, at that. Careful Ed, I hear the little animals bite back.

Boy, that free show was sure earned by the football team Sat., but the dear old class of "41" ought to go soak their heads in somebodies barrel of something-or-other. In the usual parade before the game, I'm sure the towns-people saw the military band, which marches rain or rain (pardon the repetition), but the lack of frosh was too obvious. What's the matter little boys, afraid to tire yourselves out by the long walk? The last home game of the season is to be played this coming Friday and would it be too much to ask you to turn out in full force for that parade? Try it fellows, it won't

hurt you. And another thing, make some noise for that team out there, and we will be likely to have another free show on our hands. Wouldn't that be terrible.

Looks as if one or two people read this thing, at least from the appearance of the stag line Sat. There may not have been as many as at previous dances, but they sure kept where they were not in the way. Keep it up, only make it more pronounced at this affair the 20th.

The St. Pat's Board has gone pretty high to bring you a band of distinction, so get up there and help them bring you the largest band in the country for the spring celebration.

From casual observations I should say that the Springtown Belles, at least little Ruthie, carted a heart or two back with them when they left. Gee its grand — phooooey — — That ambulance that made a short stop in the town didn't go back empty handed either, but that was taken for granted, so what. The singer was a welcome addition to Gilmore's band Saturday, he should do things like that more often. Lots of luck Gloria—is that right—I feel sure she has something there.

Pittinger's little one-man party makes it practically unanimous for the Wisconsin aggregation to gain admission to this thing (speaking of the column). Take it easy for a

while, fellows, I have to find out something to write on these other guys like "Snuffy" Smith, McCurdy, Dallmeyer, Glatthaar, Clayton, VanDeventer, "Pinky" Steward, etc., who seem to be more or less settled in their ways. — Some one told me I had an error in there somewhere, wonder if it could be Van?

Yeh, I know, I'm getting tired too, so there remains nothing to do but to shut up the machine, with the little reminder to always get assignments in on time. Somebody told me that helped the little things called grades.

P. S. —Man on fourth floor !!! — hmmm.

M.S.M.

She was a pretty co-ed. So dainty and demure; She lived out by the race track, And all the horsemen knew her.

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SAMPLE ONE-WAY FARES

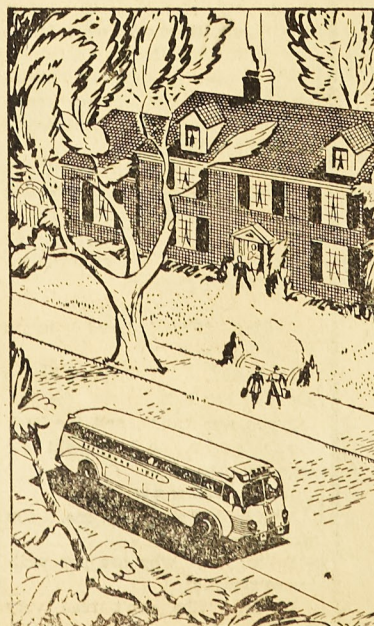
LEBANON	\$1.30	TULSA	\$5.15
SPRINGFIELD	\$2.25	ST. LOUIS	\$2.00
JOPLIN	\$3.65	CHICAGO	\$6.00

SCOTT'S DRUG STORE

8TH & PINE STREETS

PHONE 91

GREYHOUND Lines



THROUGH THE TRANSIT

by homer bru. . .

By special request I am to ask if any of the students or less popular faculty have noticed such things as the new Mast-head, the new Sports head, and a few other improvements that have been made on this particular sheet this particular year. Somebody is getting pretty sore about people being true to the old gag. No matter what you give them—they always want more. Now I have polished my apples for the week—my but he was mad . . . such a religious vocabulary.

Somebody who should know, but didn't, and was he stumped, to find that the Dames Club was not made up of our fair co-eds. He happens to be three weeks behind all over the campus, anyhow. His request of a certain co-ed to do a favor for him—led to the uncovering of the personnel of said club . . . I says, "Why did he choose to call 409W to make his query?" We all know of his strict adherence to a bach' style while in Rolla . . . 'nough said there . . .

News from the Navy --- As a result of those well known martial reports from Fort Rolla, a certain crack pilot (and I mean he was plenty good) has been relieved from duty for six months and grounded for a year. If this were a yellow sheet and I was free to carry on as I pleased I could go on for several lines opinionizing on said reports from Fort Rolla. (Story by Rumor.)

Did you notice that the Editor used the Junior Club as the theme for last week's issue? Further he didn't get a comp—further on he wasn't at the dance—I asks WHY? My but that was a big package Wop of the Sig Pi House was carrying north on Pine last Friday nite . . . one of a close kin picked him up and the W. Family was safely delivered . . . For more detail call, via tele, 427.

BULOVA

AMERICA'S PREMIER WATCH

Buy yours from

ALLISON, The Jeweler

Sole Distributor for the
ROLLA DISTRICT

My but potentate of the House of Many Smells (Chem toyou) carried a beautiful eye-piece just recently. There was another eye-piece (left) that sprouted in a co-incidental fashion (story the usual object in a dark room).

In your spare time give thought to your Xmas card list . . . It is a good idea, isn't it?

Awful? . . . well Yes.
—M.S.M.—
400 TIMES MORE LAUGHS THAN WEEPS

Urbana, Ill.—Maybe "recovery" had something to do with it, but Prof Paul Young of the University of Illinois psychology department announces that this world is, at least for college students, far from a vale of tears.

Research conducted among students at Illinois indicate that laughter is 400 times more prevalent than weeping.

Prof. Young's conclusions were that collegians take down their hair and cry less than once in every 20 days but laugh more than 20 times every day.

Women weep three times as often as men but their funny bones are not tickled as often.

Weeping is caused 80 to 90 per cent of the time by environment.

Laughter is caused 98 per cent of the time by social contacts.

The chief cause of joy or gloom among students is class grades.

Letters—received or not received—ranked second. Especially letters containing checks from home.

Dates, however, were relegated to tenth place among the sources of cheer.

—A. C. P.

—M.S.M.—

A meek little man was walking home from the funeral of his masterful wife. Suddenly a roofing tile fell and struck him on the head. "Gosh", he said, "Sarah's got to heaven already".

—M.S.M.—

Seaman Sam says it often shows a fine command of language to say nothing.

**DRINK
Dr. Pepper**

PAY DIRT

By C. Sharp

A lot of the boys are calling 409W lately. It'll be an "exclusive" before long I bet. Or doesn't she fall easy? How come no Sigma Nu freshman flunked chem? Or didn't they get any this year? Not much ado about nothing seems to be the theme of J. I. G., That and four or five Gilmore's per paragraph. Guess who writes it. Doc Maise tried to burn down the ole homestead the other day, and the populous was treated to a glimpse of Lillian at a dead run.

The parade Wednesday was a honey. When questioned by your reporter as to why they didn't doff their bonnets when the colors passed, two loyal students replied; "Oh, did the flag go by?" and "We sposed to do sumpin'?" Oy! How about "No horse, no wife, no mustache" for some of our officers, forgetting the wife and horse. One platoon was clear out of sight.

Wats a matter Doc Followill? Scott says that he has been cut-rate for half a century. No offence intended, but if the Harvey's would remember that boys will be boys, and they don't mean much harm, maybe the student body would do a little more outside eating.

Swingins

Stay up 'till midnight Monday, and hear the "Kayser College of Musical Knowledge" at the Blackhawk. Go up town for acoke if you accidentally dial Jerry B l a n e's "streamlined music.". This is Tommy Dorsey week for Victor, and of eight "You're A Sweetheart" by the clambake seven is the best, crowded by a lightly mugged "Nice Work If You Can Get It" If you liked "Marie", you'll go for "Who?"

WATCH FOR IT THE Mystery Dance

along the same lines. If you buy it, turn it over and find Larry Clinton's "Dipsy Doodle", than which there is few better. Week's Corn special is "She Stopped Giving Everything Away".

Ain't it awful?

—C. S.

—M.S.M.—

Prof. Kilpatrick's New Motor

Professor Kilpatrick, of the Mechanical Department, is developing a new idea in gasoline engines. He is making a type of engine totally unlike any now in existance. Instead of the conventional piston-type construction, the new motor is made in the form of a cylinder about 6 inches in diameter and 3 inches in height mounted on a hollow shaft. The cylinder is made of forged nickle steel. The shaft is made from the rear axle of a Model T Ford.

The inside of the cylinder is divided into four hollow compartments. Each compartment has two valves, one opening into the hollow shaft, and one connecting with the outside through an opening made obliquely in the outer surface. These valves are controlled by cams on the shaft.

In operation, a gasoline mixture comes from a down-draft carburetor at the top of the motor down through the hollow shaft. It is taken into the compartments thru the inner valves. Inside the compartments the mixture is exploded by a spark from a battery. The highly compressed gases thus form-

Blue Key Luncheon

Blue Key held its second luncheon meeting at the Episcopal Parish House on Wednesday noon, November 3. President Craig Ellis acted as toastmaster and introduced the guest of honor, Prof. W. R. Chedsey, director of the School of Mines.

Prof. Chedsey commended the fraternity's plan of holding a luncheon meeting on the first Wednesday of every month. He compared the fraternity to the Rotary and Lions Clubs and insured it of similar success. Assistant Registrar Noel Hubbard and Professors R. Z. Williams, F. E. Dennie and C. Y. Clayton were called upon to say a few words. A short business meeting was held in which the possibility of broadcasting the Miner-Oklahoma City football game was discussed.

—M.S.M.—

Reformer: "Stop! Do you think a glass of that vile stuff will quench your thirst?"

Drinker: "No, sir, I'm going to drink the whole quart."

—M.S.M.—

Robinson Crusoe had his man Friday, but I want my girl Saturday.

—M.S.M.—

Do you think you could learn to love me?

Learn to love you? Great heavens, I could give lessons in loving you.

ed are expelled thru the oblique holes in the outer wall of the cylinder. The reaction of this expulsion is sufficient to set the cylinder in motion in a direction opposite to the angle of inclination of the oblique holes.

Several unusual difficulties in constructing this motor have been met with. The operating speed of the motor, 20,000 r. p. m., is so great that no type of bearings could be obtained that were constructed to operate at this speed. High speed ball bearings with a special type of oil for lubrication have been used, however. Although the motor has not been operated on gasoline as yet, speeds of 40,000 r. p. m. and over have been reached by using compressed air and the bearings have stood up well.

Professor Kilpatrick intends to use this motor as an outboard motor. The new motor generates three horsepower with a total weight of 21 pounds, or 7 pounds per horsepower. The average outboard motor in use today weighs 12 pounds per horsepower. The efficiency of this motor will be about the same as that of the ordinary type of gasoline engine.

**DRINK
Falstaff Beer**

Independents Amend Constitution

Eighty Members Present

Around eighty Independents attended the meeting held Monday night, November 1, in 103 Chemistry Building. The meeting was called to order by President Lanier at 7:15. Secretary Prange read the minutes of the preceding meeting and they were approved.

A short discussion of the proposed Amendment to the Independent Constitution was held. It had been thirty days since the Amendment was proposed so it was voted on and was unanimously approved. The Amendment was as follows:

"ARTICLE II—Member and Dues

Section 1: All students who are not members of social fraternities on the M. S. M. campus are eligible for membership, and will become active members upon payment of their annual dues.

Section 2: The dues will be determined so as to cover the expenses of the organization, and must be approved by a majority of the Independents at a regular business meeting."

The dance committee gave a report on the arrangements that had been made for the Independent Dance. Volunteers to help with the decoration of the gym and to help with the gate were called for and several members responded. Then followed a long and heated discussion as to who was to be invited to the dance. Finally a motion was made by Mr. Smith that a committee be appointed to O. K. the invitations. The motion was carried and the following committee was appointed by Lanier; Ralph Wilkey, chairman, Phil Leber, and John Livingston.

Treasurer Stokes reported that the membership drive had netted eighty-six paid-up members to present. It is hoped that about twice that number may be obtained.

The meeting was adjourned after a vote of thanks had been extended to the committee that prepared the Independent float for the Homecoming parade.

BOARD FOR STUDENTS

There is room at our tables for just a few more students.

Two meals per day \$18.00 per month.

MRS. FLORA C. GRANT

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34 oz. Mackinaw Plaid Jackets
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With All Round Belt—Bi-Swing Back
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Wool Plaid Shirts **\$1.98**

Standard Store

And remember, Miners, Please, that 10 cents per day, same as last year, buys your Remington

SCOTT'S--The MINER'S CO-OP and BOOK EXCHANGE

Fifty years of service to M. S. M. men, and "still in the ring" at 8th & Pine

GLAMOROUS



High, Wide and Handsome

Beautiful Dorothy Lamour plays the biggest dramatic role of her career in "High, Wide and Handsome," the brilliant saga of early oil days in Pennsylvania which shows Wednesday and Thursday, Nov. 24 and 25, at the Rollamo Theatre. The cast is headed by Irene Dunne and Randolph Scott

M.S.M.

J. B. PRIESTLY LECTURES ON "A WRITER LOOKS AT THE WORLD", AT M. S. M.

Continued from page one

diagram and pointed out that science was not all there is but that there is something behind it. In fact he said that he had ceased to believe all this scientific stuff. He refused to believe that arts were just by-products of this science. He then brought out that we should judge this science by what it will become, not by what it began.

Again he said that the world that we don't see is creating the world that we see, and he said that men were creating disaster for themselves. He told the audience that the human conscience changed most in the world not the scenery. He warned us that we should find a new synthesis if our civilization is to last.

He then asked why the world should be limited to three dimensions. He suggested that time be the fourth dimension to the people who could only recognize three dimensions. He showed what he meant by bringing a three dimensional glass into contact with a two dimensional plane. To a person with a two dimensional mind time is the third dimension, i. e. it takes time to pass a three dimensional object through a plane therefore it takes time for a two dimensional person to see the object. In that way he argued why a person who could see four dimensions could see our whole life at one glance, that is why couldn't a person see our whole life projected before him if the time element became just another dimension. He said that everything had a time track. He explained dreams as fourth dimensional views of our life, i. e. a picture of portions of our time track some of which have been passed and some which have not. In this way he explained how some dreams come true.

He pointed out that this new knowledge was coming along just when it was needed. He said that all are created dreamers. He said that personality was no longer important, and that consciousness should enjoy the body instead of vice versa. This knowledge is

needed because the times are so dangerous that something is needed to form a new synthesis such as the Medieval people had or else our civilization will be destroyed as the Tower of Babel was.

The audience enjoyed his lecture very much. After a short intermission Mr. Priestly answered all of the questions that the audience cared to ask.

M.S.M.

Doctor:—"What you need is an electric bath."

Sailor:—"Nothing doing! I had an uncle drown that way up in Sing-Sing."

A. I. E. E.

Continued from Page One

pounds altogether. It operates at 315 pounds pressure and 725 degrees temperature, and develops 75,000 K. W.

In his talk Mr. Meyerond discussed the problems that arose when the new unit was installed. The tying in of the new generator with the existing units was especially difficult in that it involved a complete re-wiring of the entire plant. Much of this work had to be done with "hat" connections, so that service

would not be impaired.

The whole plant uses 4100 tons or 82 cars, of coal each day. Over 100,000 tons are kept on hand for use in case the supply is cut off by strikes or other causes. The coal is dumped by a huge machine that picks the cars up and pours the coal from them into the storage bins.

Mr. Meyerond said that the enormous smoke stacks of the plant were 325 feet high, or higher than a twenty story building.

After the talk refreshments were served. The date of the next meet-

ing will be posted on the bulletin board.

M.S.M.

"This book on Africa says there's a tribal custom of sacrificing a young girl to a gorilla. Funny, isn't it?"

"Not so funny. My wife says that's what happened to her when she married me."

M.S.M.

Fruit cocktail! A strawberry blonde, with a peach complexion, cherry lips, and a pretty pear of legs, is often the apple of some man's eye, but later proves to be a lemon.

It's a big day

with a smoker
when he finds out
about Chesterfields

Smokers like that
Chesterfield TASTE
and sure as shootin'
they're Milder



Open the
season with
more pleasure

Chesterfield

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