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The Missouri Miner, May 06, 1936

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THE MISSOURI MINER

MISSOURI SCHOOL OF MINES AND METALLURGY.

VOLUME XXII

ROLLA, MO., WEDNESDAY, MAY 6, 1936

NUMBER 30

OFFICIAL OF STARCH COMPANY TALKS TO IRA REMSEN

Mr. Fetzer Distributes Interesting Data on Corn And Starch Industry

Mr. Fetzer, of the Union Starch and Refining Company, gave an interesting illustrated lecture to the Ira Remsen Chemical Society last Wednesday evening. There was an unusually large attendance. He distributed some outlines of interesting data concerning the starch and corn syrup industry.

As an introduction, Mr. Fetzer said a few words concerning job applications. The first thing to do is to sign your name to letters of application. He remarked that industry is not interested in abstract theories. Many young men enter industry with a vast supply of theories but they have nothing to back them up with. Chemists are not usually taught to sell their services.

Corn products and the production of synthetic chemical from corn will increase within the next 10 years. This will help the farmer, tremendously. In the plant at Granite City, Illinois, there are no sewers, although thousands of gallons are handled daily. The water is used over and over in counter-current principle, and the final liquor contains valuable products such as starch, soluble mineral salts and fats.

When the corn reaches the refinery, it is soaked until the hulls can be removed readily. The germ is then removed and washed and dried; the oil removed from the germ is valuable. The residue, with the removed hulls, constitutes oil cake meal.

Continued on page six

E. E.'s. ATTEND MEETING IN ARKANSAS

A. I. E. E. Convenes At University of Arkansas; Fisher Presents Paper

Last Friday, a group of E. E.'s. went to Fayetteville, Arkansas, to attend the Southwest District, Tenth Student Branch Conference of the American Institute of Electrical Engineers. This conference was at the University of Arkansas, May 1 and 2, 1936, and was attended by representatives from 14 schools in the Southwest District, there were approximately 150 delegates and some visiting field engineers.

The session was a technical study of various applications in the electrical engineering field. There were papers presented by students in the various schools Friday afternoon and Saturday morning. R. L. Fisher gave a report on his investigation of the Characteristics of an Improved Repulsion Induction Motor. He has spent some time this last semester in a study of this motor which is of the experimental type, loaned by the Emerson Manufacturing Co., of St. Louis.

Fisher merits applause in that he was complimented highly on his report. He was ineligible for the award given for the best paper because his work was not entered in time for competition. The first award was won by P. H. Watson, University of Missouri, his report being a study in Rural Electrification.

The representatives from M. S. M. were R. L. Fisher, K. O. Hansen, W. H. Schwalbert, William

Tau Beta Pi To Hold Initiation Tonight

The local chapter of Tau Beta Pi held a meeting Tuesday night, April 28th. They decided to hold an initiation and have a banquet for the pledges Wednesday, May 6th. The following men will be initiated: Culbertson, Logan, Volz, Breuer, Price, and Luder.

M. S. M.

PROF. BARLEY TO ADDRESS M.C.P.A.

Convention To Be Held As Part of M. U. Journalism Week at Columbia

The Missouri College Newspaper Association is going to hold their annual convention in Columbia, Mo., Friday and Saturday of this week, May 8th and 9th. The purpose of the convention is to improve college journalism in Missouri and to award prizes to the best newspapers in the state. The Miner will compete in these contests. The entries in the contests will include three of the following: News stories, sport stories, feature stories, poems, and editorials, and three consecutive issues of the paper. The winners of the contest are to be picked by Professor Roscoe Ellard, chairman of the editorial department of Missouri University and editor of the Columbia Missourian. A loving cup will be presented to the best paper by the Jefferson City News Tribune. Medals will be awarded to the authors of the best article in each of the different classes by the St. Louis Globe-Democrat.

The program will begin Friday afternoon at 2:30 with a speech by G. O. Nations on "The Influence of The College Press on Campus Opinion." Dr. J. W. Barley head of the English Department at M. S. M. will give an address on "Censoring the College Press." Sat. morning the program will begin with a business meeting and a criticism of the entries in the contest by Prof. Roscoe Ellard. There will then be a sketch given by Delta Sigma Chi, a journalism fraternity and members of the association will write a news story on it to be placed in competition. The author of the best news story will be awarded a book prize. At noon Saturday the members if the association will be entertained by Delta Sigma Chi at a luncheon to be given at the Harris Cafe.

The Miner will be represented by W. Jarret, R. Prough and B. C. Compton.

Ford, and Prof. I. H. Lovett of the E. E. Department.

Many new ideas were discussed and the conference proved well worthwhile.

E. P. O. INSTALLED AS CHAPTER OF ALPHA CHI SIGMA

High Officials of Fraternity Here For Ceremonies; Banquet Held at Edwin Long

Installation ceremonies of Epsilon Pi Omicron Fraternity as Beta Delta Chapter of Alpha Chi Sigma, national chemical fraternity, took place Saturday, May 2. Grant Master Alchemist, H. E. Wiedemann acted as installation officer.

The Beta Delta Chapter were fortunate in having present two district counsellors; they were Dr. Breckenridge of Missouri University, counsellor for the Midwest of which the Missouri School of Mines is a part, and Mr. Van Doren counsellor of the Northern district.

At 6:30 a banquet was held at the Hotel Edwin Long. Mr. H. E. Wiedemann of the St. Louis Professional group acted as toastmaster. Talks were made by Master Alchemist Edward Ray of Delta chapter, of Washington University, Master Alchemist Gilliam of Alpha Epsilon Chapter of Missouri University, M. L. Griffin of the St. Louis Professional Chapter, Dr. Breckenridge, Dr. Schrenk, Dr. Dunlap, and E. W. Volz, Master Alchemist of the Beta Delta Chapter of M. S. M.

As souvenirs of the occasion ash trays of blue back ground on which were emblazoned the initials of Alpha Chi Sigma. The ash trays were made in the Ceramics Laboratories of this school.

Officers elected for the next school year to guide Beta Delta Chapter on this campus were:

Master Alchemist, E. W. Volz. Vice Master Alchemist, Richard Cardetti.

Chapter Reporter, Arthur Hausmann.

Chapter Recorder, H. Berger.

Treasurer, Clemens Maisie.

Alumni Secretary, Tom Day.

Master Ceremonies, Peter Jenni.

Chapter Advisor, Dr. Schrenk.

There are twenty-five members of Beta Delta Chapter of Alpha Chi Sigma. All of these men are students or professors of the Missouri School of Mines.

The charter members are:

Leroy A. Bay, Harry C. Berger.

Continued to Page Six

MOTHER'S DAY

Special Mother's Day services will be held at all the churches Sunday. If your mother is in town Sunday, take her to one of these services, if not attend yourself. It will please your mother if you attend the church of your choice Mother's Day.

MOTHER'S LOVE

—O—

Her love is like an island,
In life's ocean, vast and wide,
A peaceful, quiet shelter,
From the wind, and rain and tide.

'Tis bound on the north by Hope,
By Patience on the west,
By tender counsel on the south,
And on the east by rest.

Above it like a beacon light,
Shine faith, and truth, and prayer;
And through the changing scenes of life,
I find a heaven there.

Author Unknown.

Three Men Initiated Into Triangle Fraternity

The Triangle Fraternity held a spring initiation Sunday, May 3, for Harry W. Cutshall, Irvan E. Curtis, and Fred N. Taylor. The honorary members present were Professors Dodd and Carlton; Alumni present were W. Finley and P. Prough.

M.S.M.

SURVEY STATION AT U. S. 63 and 66

Six Men Compose Crew Weighing Trucks And Buses Last Saturday

Last Saturday from 6 a. m. until 2 p. m. the Missouri State Highway planning survey station was at the intersection of U. S. 63 & 66 north. The loadometer crew was composed of six men: Mr. W. Bangert, chief of party; Mr. D. A. Schrader, Density Recorder, Mr. J. Dwyer and Mr. W. Hug, Loadometer men; and Mr. D. Day and F. De Souza, Recorders.

These men explained the reason of the survey and how it is carried out. There are six crews in the state, each occupying one station for a day's time. Later on this month there will be a night crew take up this post. This same crew will be back here on May 28.

At this station Saturday, no arrests were made. That is not the duty of the crew. The idea of the survey is to obtain data to be used for the maintenance of present roads and for planning new ones. All cars and trucks passing the "Y" were counted. Notation was made as to whether the cars were Missouri cars or out-of-state cars. Every bus and truck was stopped and weighed. Notation was made as to the state of registration, Mo. Public Service Number, Mo. P. S. C. net load permit, license number, type of vehicle, type of body, rated capacity (tons or No. of persons), origin, destination, trip mileage, wheel loads, and a few other items.

The weighing was done on two scales which were about 18 inches long, 12 inches wide, and 3 inches high. These scales were placed in front of one front and rear wheel. The truck then moved forward on to the scale. The readings for each axle was recorded. If the truck was of the tractor-trailer type the load over the third axle was also weighed. The scale readings were multiplied by two and added together to get the total weight of the truck. This method is not absolutely correct but is close enough for this type of work. When Weight Officers weigh trucks, they weigh all wheels.

Joe Murphy was contact man for M. S. M. He was at the station during the entire stay of the crew. The Miner wishes to express the thanks of the school to the members of the Loadometer crew for the interest they took in explaining all the details of their job. All students who were at the station felt that they had gained a lot from being out there.

M. S. M.

Kappa Sigma Fraternity Holds Semi-Annual Election

The Kappa Sigma Fraternity held its semi-annual election last Monday at which time the following officers were elected:

Grant Schaumburg, Grand Master; Robert Alger, Grand Procurator; Robert Jones, Grand Master of Ceremonies; Carl Von Wehrden, Grand Scribe; Jack Allgeyer and Herbert Crecelius, Guards.

MAJOR-GEN. BOLLES SPEAKS BEFORE LARGE CROWD

Distinguished Alumnus of M. S. M. Introduced By Professor Geo. R. Dean

Major General Frank C. Bolles spoke on the topic: "The Second Lieutenant's Place in the Army, His Work and His Problems as Compared to a Young Man Entering Civilian Life," at a special mass meeting held Wednesday, April 29. General Bolles was introduced by Professor Dean who was one of his instructors during his attendance at M. S. M.

He opened his discussion by comparing the sources from whence the army and industry obtain their Second Lieutenants. The Army obtains its Second Lieutenants from the Military Academy at West Point, while the new graduates of technical and other schools may be called the Second Lieutenants of industry. The duties of the newly graduated army lieutenant and the duties which go with the lower offices in industry are very much

Continued on page six

CIVILS TRIP TO START THURSDAY

Twenty-seven Seniors To Leave Rolla Via Bus For Sixteen Day Trip

Tomorrow morning, Thursday, May 7, Professors E. W. Carlton, E. E. Decker and twenty-seven Senior Civil Engineering students will leave Rolla via bus for Jefferson City, Missouri, the first stop on itinerary. During their sixteen-day trip they will visit points of interest in Keokuk, Iowa; Chicago, Illinois; Milwaukee, Wisconsin; Manitowac, Wisconsin; Springfield, Illinois; St. Louis, Missouri; and vicinities, covering a total of about 1800 miles, including 250 miles in Chicago, and 50 miles in St. Louis.

Unusual points of interest will include the Rolling Mills of the American Bridge Company at Gary, Indiana, and the shipyards of the Manitowac Shipbuilding Corporation at Manitowac, Wisconsin. The party will be in Chicago for more than a week.

Inspection trips are required of students because it is believed that the educational advantages resulting from the inspection of large industrial enterprises fully justify the time and expense involved. To realize this ideal, however, students must make every effort to secure a correct impression of the places visited, and an appreciation of the general nature of the plant inspected and of its product, rather than minor details. Thus it will be seen that trips of this kind are essential parts of a good engineering education.

The party will return to Rolla on Saturday evening, May 23.

CARD OF THANKS

We wish to thank all our friends among the citizens of Rolla, the faculty and students of the Missouri School of Mines for their sympathy and beautiful floral offerings during our recent bereavement.

PROF. J. H. UNDERWOOD AND CHILDREN

THE MISSOURI MINER



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

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MOTHER'S DAY

How strange it is, that once a year we set aside a day for mother. Just like setting aside one day to grasp the wonders of the heavens, the beauty of nature or the warmth and comfort of the sun. We really do not intend to just honor mother one day a year but to just have one day to show a few special expressions of our love to the one who has done so much for us.

Mother, our first sweetheart, is responsible for our comfortable position in life. Her love is as boundless as the heavens above, her wisdom and guidance are ever ready to come to our aid whenever we need them. Our worries, our joys, our cares, are all hers.

Mother never considers herself, our welfare is her first concern. A few days ago a three year old boy tumbled to the tracks of a subway train just as the train came speeding into the station. His mother, never thinking of her own safety, jumped after him and pushed him to safety just before she was crushed to death by the train.

How like our own dear mother's love is this incident. No one will do for us, believe in us, trust us, like mother. She is the one who does the dreary task smilingly. He loving acts bring memories which we can cherish for years afterwards.

We cannot all be poets or writers with the ability to express our thoughts of appreciation in flowery language but we all can try to do the things which are pleasing to the dearest one on earth every day of our lives and use this one day of the year to simply say, "Mother I Love You."

—M.S.M.—

EDITORS NOTE: The Miner always wishes to print the views of the students and faculty, but articles written by non-staff members in no way reflect the policies of the Miner. Here is the other side to a recent open letter.

—O—

REFLECTIONS ON THE OPEN LETTER TO THE FACULTY

Perhaps in every school in the country the student body of that school has in the palm of its hand a "Townsend Plan" idea which over night will make that school "a bigger and better place" at which to study and to live. How ridiculous to most of us is the Townsend Plan. Yet how seriously do we believe that the principal causes of the faults of the campus lie in the bad administration of the faculty! If only we could reason away from the heat of the petty affairs of the campus; in a sense look down upon it from a great height, perhaps then we could realize that the interests of the school are as paramount in the minds of the faculty, as these same interests are in the minds of the more active members of the student body. What a weak gesture it is to write in polished affected words an accusation to amuse the eyes of the faculty, when they, whose vision is so much keener than ours; whose knowledge of human nature surmounts anything we can boast of; whose experience has already known similar attempts at fault-finding, only cast aside our utmost efforts as the ramblings of the immature whose energy has broken its bounds.

That they should do this, is their claim on our admiration.

Some of us lament the lack of school spirit among us, and the breaking up of a centralized interest in the school into several minor interest which fall to fraternities and to other organizations on the campus. Indeed, such a condition is lamentable, but it is a serious error to place the cause of this condition on the administration as conducted by the faculty.

In the pages of the past is recorded an admirable relationship between instructor and student, a relationship which I hoped to find still existent on my arrival to this institution; and before I learned the actual attitude of the student body toward the faculty, I believed for a moment that I had found that which I hoped so much to find. This relationship of which I speak is not that of the employer to employee, but that of the disciple to the master. An admiration for the instructor and the respect due him is compatible with no other relationship.

School spirit like happiness in life is founded on little things, on common courtesies. If the student body does not respect the faculty how can it respect the school, which is the incarnation of the faculty? Let any one say that we have not an admirable faculty and the record of the school, the respect won it by the achievements of the faculty will shout in his face, "FOOL."

Yes, we have in our faculty the rocks upon which to build a new school spirit and a new tradition. Necessary only is the willingness of the student body to be dominated by that spirit. School spirit cannot survive among the faculty-few, if the student—may refuse to nourish it. The energy, the enthusiasm, which is school spirit, must emanate from the students; the faculty fired by its spark can only direct it into the proper channels.

One who hides behind the high fence of anonymity charges the faculty of preventing and discouraging certain activities of the students. I refuse to believe that our faculty would deliberately put their thumbs down on a project which would reflect credit on the school. Rather I am inclined to believe, after reflecting on an odious episode of the recent past, that the faculty were justified in all their decisions. One cannot display the judgment of a child and the next moment receive the responsibilities of a man. One cannot throw mud at a neighbor and the next moment expect his good-will, his admiration and his favor. How can the students exercise authority over themselves when they show themselves uncultured, boorish, vulgar and even childish?

Are we capable of unified school spirit? Is it essential that our greens be marred by hideous bald paths? Have we the maturity for an effective student government? I doubt it very much, but I have still much to learn.

A. F. BOCHENEK.

—M.S.M.—

TECHNICAL NEWS

By E. L. Claridge

Handshaking should be done away with, according to the editors of Scientific American. No, they don't mean handshaking professors, but only the time-honored custom of shaking hands with a friend or acquaintance when you meet him. Their contention is that too many diseases, especially colds, are easily spread in such a manner. To avoid the contact and retain the cordiality of the greeting they propose that we adopt the old Japanese custom of bowing deeply on such occasions. It is misguided cordiality, they say, to spread disease by such an unhygienic procedure under the guise of friendship. It is a conventionality which grew up before the days of science, and today it is essentially unscientific and unhealthy.

On February 7, of this year a billion ton projectile travelling at a speed of 20 miles a second almost hit our earth. However, it wasn't shot at us by men on Mars or the Moon; it is a minor planet, one of the asteroids, called the "Delporte object," and it missed us by about one and a half million miles. This may seem quite a safe distance, but the earth's gravitational influence extends considerably farther than that. The greatest danger lies in a closer approach, however, to within about ten thousand miles. In such a case it would spread nation-wide disaster where it landed.

A great mine is now in operation on the shores of Great Bear Lake, Canada, on the Arctic Circle, which produces the most valuable mineral in the world. Radium sells for about two million dollars an ounce. The ore is refined at Port Hope, Ontario, three thousand miles from the mines. The carefully guarded mineral is transported on airplanes. Three tons of chemicals are needed in the refining of one ton of ore. A new method of extraction cuts the time of production to three months, and every step of the process is carefully checked to prevent loss. Until recently the only useful source of radium was in the

Belgian Congo, and this new source is expected to place radium within the purchasing power of all hospitals, and thus prove of great benefit in the treatment of cancer. It is therefore not only of the greatest importance to mining but to medicine.

The thirty-eighth annual meeting of the American Ceramics Society was held in Columbus, Ohio, from March 29th to April 4th, with an attendance of about 1000, a large percentage of the total membership of 2320. William J. McCaughey, head of the department of Mineralogy at Ohio State University, delivered the Edward Orton, Jr., Memorial Lecture on the fundamentals of phase-rule diagrams and modern ideas as to the special arrangement of atoms in the silicates in the light of X-ray analysis.

At Washington University, St. Louis, there will be held the Thirtieth Colloid Symposium from June 11 to 13, 1936.

A new plastic molding material, 77 S B Black, has been developed by General Plastics, Inc., North Tonawanda, N. Y. It is of especial use for molded parts in which a combination of low water absorption, acid resistance, light weight, and frictional wear resistance is needed. It has a specific gravity of only 1.26, resists all common concentrations of acids, and may be machined, sanded and buffed after molding without impairing its useful properties.

A newly developed electron lens has made possible "seeing in the dark" by infra-red light. An infrared image of the object to be viewed is projected on a photo-electric cathode such as cesiated silver, which emits electrons in a pattern corresponding to the image. These diffuse to a blurred cloud a short distance from the screen, but a series of focusing rings reassemble them into their original pattern as they impinge on a fluorescent

screen on which the observer then sees an ordinary image of the distant object. It can be used to test smoke penetration by infra-red rays, for secret signalling, and in microscopy.

Radio operators have been worried for some time by "the shadow," by which they mean an unusual type of interference or "static." It has been thought to be the work of a foreign government intent on disrupting the radio communications of the world, or the work of some crank, or even to emanate from some other planet. The location of its source baffled engineers as reports of it came from everywhere, on every wave from thirty meters down. It is still heard, but is no longer a mystery. It is produced by a number of new type high power diathermic machines used in hospitals and institutions. The coils used for treatments, through which a high frequency current passes, act as antennas and broadcast a sky wave which can cover immense areas. Steps are being taken to prevent the broadcasting of this power wave, but in the meantime the disturbance goes on. Who would think that a person could listen to the electrical oscillations warming a man's leg on the other side of the world?

A portion of the work of the Bureau of Mines here at MSM includes investigation of the properties and composition of various minerals. The refractive index of transparent minerals is obtained by immersing them in liquids of known indices of refraction, using a microscope or refractometer to determine when the refraction of light through the mineral and through the liquid are equal. Opaque samples are embedded in bakelite disks and the polished surface is examined by polarized light.

The composition of some samples are obtained qualitatively by microscopic study of characteristic forms of crystalline precipitates obtained from solutions of the mineral by certain reagents.

Another part of the work is the determination of the electrical charge on tiny oil particles in a water suspension. Platinum electrodes are inserted in the solution producing an electrostatic field. The tiny charged oil particles are attracted by one of the electrodes and repulsed by the other. Measuring their rate of movement with an ultramicroscope and knowing the potential between the electrodes, the amount of charge on the particles can be obtained. It is hoped that this knowledge will be of value in the flotation process, in which the oils are used.

Dr. S. R. B. Cooke, of the Bureau of Mines staff and an amateur astronomer, is now engaged in the construction of a spectroheliograph, a powerful astronomical tool used in studying the sun in light of single wavelengths. When completed it will be one of the few of its kind in existence in the United States.

—M.S.M.—
Salary Cuts

The extent of the severe salary cuts taken by faculty members of the nation's 51 land-grant colleges during the depression period has been outlined here in a special report issued by Dr. Walter J. Greenleaf of the Department of Interior's office of education.

Deans employed on a nine-month basis saw their median salaries decreased from \$5,193 in 1928-29, to \$4,187 in 1934-35, an average decrease of more than \$1,000.

The survey showed similar depression-period slashes in salaries paid to professors, associate professors, assistant professors, and instructors. Full-time professors on a nine-month basis received an average salary of \$4,275 in 1928-29. By 1934-35 their annual income had decreased to \$3,775. Those on an eleven-month basis had their salaries cut from \$4,161 to \$3,682 over the same period of time.

Associate professors dropped from \$3,352 salaries in 1928-29 to \$2,903 in 1934-35; assistant professors from \$2,738 in 1928-29 to \$2,449 in 1934-35, and instructors from \$2,005 to \$1,769 over the four-year period.

Salaries for the present year are higher than last year.

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MINER TEAM TRIMS DRURY COLLEGE

Victory In Broad Jump And Mile Relay Clinches Meet

Repeating their last year's performance, the Miners, Saturday, defeated the Drury College Track Team for their second dual victory of the year. In taking ten firsts out of sixteen events, the Miners overcame an early lead, secured by one-two finishes in the century and 220-yard dashes, to nose out the Panthers 71-65.

With a fast track and a light breeze at his back Walker Dobson Drury sprint star, covered the distance of a hundred yards in 9.9 sec for a new meet record. With his teammate George Luna right at his shoulder and the two Miners less than a pace behind this was practically the tightest finish possible.

The meet was a very close match throughout and it was not until a victory in the mile relay, the next to the last event, that the Miners were assured of a victory.

Dobson with his firsts in the two dashes shared high point honors with Captain "Red" Brown of the Miners who captured the blue ribbons in the mile and two mile. The two mile race also had one of the best finishes of the afternoon. But Gene Moore from Drury who was leading at the three-quarters mark hadn't quite enough stamina to nose out an old timer like "Red".

Among other things Bill Knight and Johnny Gibbons both of Drury finished one-two in the high hurdles, but "Giant" Bishop scampered away from both of these timber-toppers and walked home with the honors in the lows.

The Drury Golf team because of illness, failed to show up. And as far as the Miners were concerned this was rather bad for the Scotch Foursom, playing on their home course, would have probably reaped the laurels. However the match is scheduled for later on in the season.

The Panther Tennis squad made up for the defeat of the track team for they drubbed the Miners 6-0. Ray of Drury behind a steady chop game defeated Paul Ellis of the Miners 6-3, 6-1. H. Logan set down Red Eggleston 6-0, 6-1. While another Logan tripped up Jim Weaver 6-1, 6-2. In Doubles the firm of Logan and Logan defeated Ellis and Eggleston 6-2, 6-4. Buchanan and Wright eliminated Cornett and Weaver 6-2, 6-4. For a while the Miners double teams looked like they might possibly win as the Drury netters appeared rather erratic but they finally tightened down again and polished off the afternoon.

TWO-MILE RUN—Won by Brown, Miners; G. Moore, Drury, second; Tittel, Miners, third. Time—10:38
100-YARD DASH—Won by Dobson, Drury; Luna, Drury, second; McGregor, Miners, third. Time—9.9
220-YARD DASH—Won by Dobson, Drury; Geo. Luna, Drury, second; McGregor, Miners, third. Time—23.5
440-YARD DASH—Won by Nickel, Miners; H. Hackett, Drury, second; King, Drury, third. Time—55.4
880-YARD RUN—Ballman and Tuckett, Miners, tied for first; Ray, Drury, third. Time—2:12.8
MILE RUN—Won by B. Brown, Miners; G. Moore, Drury, second; R. Tittel, Miners, third. Time—4:49.8
120-YARD HIGH HURDLERS—Won by Bill Knight, Drury; Gibbons, Drury, second; Yungbluth, Miners, third. Time—16.3
220-YARD LOW HURDLERS—Won by Bishop, Miners; John Gibbons, Drury, second; Knight, Drury, 3rd. Time—27.9
880-YARD RELAY—Won by Drury; Luna, Westover, Gish, Dobson. Time—1:36.1
POLE VAULT—Won by B. Hackett, Drury; Blish, Miners, second; Gene Westover, Drury, third. Height—11 ft.
HIGH JUMP—Lange and Jaenecke, Miners tied for first; Dalton and Knight, Drury, tied for third. Height—5 ft 3 inches
SHOT PUT—Won by Pfeiffer, Miners; McGlothlen, Drury, second; Wilkey, Miners, third. Distance—36 ft 4 inches
DISCUS THROW—Won by Moore,

THROUGH THE TRANSIT

By Homer Bru

Considering all the goings on this week-end the boys have behaved themselves too well to benefit an inmate of ye old institute of engineering.

Thursday nite was the beginning of a series of spring "shin-digs" with a dance given at the Parish house. The dance was a huge success.

Well, well, the Freshmen did get around to throwing away their suspenders. It is a good thing because it seemed like the Sophs. weren't doing such a good job of enforcing the old traditions. Maybe next year's Sophomore class will do a better job and make the class of '40 take note that they aren't the ones that are running things upon the campus. By the way Freshmen, ask some Junior to show you what it is to "button" so next year's class will be better educated than you were.

Friday nite saw the "Snake" dance which by all indications was up to par with the rest of their dances. Kiser, as usual, didn't get to bed that nite and believe it or not he took the Theory Quiz for a ride Saturday morning. More power to you Johnnie, it takes a real

man to get into condition on such short notice. Lately there has been the absence of one or the most popular brothers of Sigma Nu at their dances. What's the matter Joe Pete? getting too old. (the fire-side is more comfortable, isn't it.)

Good old Bud Folsom, never a dull moment when he is around for a big week-end. A new discovery is credited to Bud for the whole world to awe at. It seems that gardenias will grow better if submerged in beer to give them that "pick-me-up" look. Now everyone can tread the streets and peddle their flowers out of beer cans, as was put forth by our great scientist. (That's alright Bud if humans can live on beer so can the flowers.)

Saturday nite also was the evening of another dance which was given by the Kappa Sig's. Strange as it may seem all but one date was a repeat of St. Pat's and this indicates that St. Pat's has more to offer than a good orchestra. The dance ended at three, but the momentum was so great that Cardosi and Woodward couldn't stop until Sunday afternoon.

That's all this week children.

WINCHELL'S ECHO

Wednesday nite, an honorary campus organization held their annual pledge initiation. From what I learned unfortunately I wasn't in attendance, it must have been very amusing when they all went for a walk, in somebodies pasture. Seems as if they could have picked out a drier place, don't you think so men?

Here tis, the column space for Thursday. You know, these things have to be run on an organized form. To take the limelight for Thursday, the Young People of the Episcopal Church gave their annual Dinner Dance. The usual things go, very well attended, excellent meal, and swell music (get that Gilmore?) I could not let some of the happenings go by unheeded tho, because some of them were really outstanding. For instance, the art of throat cutting has ceased to be practiced behind closed doors, it was brought out in the open at said dance. It even got to be fraternal after a while, although I don't suppose Joe thought so. The usual Pennant Party was in full swing also. What next little World? The evening closed —by the way Van, do people put their feet on the floor of a car, or do they keep them in their pockets?—with a gradual quieting down on all fronts, only to open with a bang on the morrow.

The Sigma Nu's staged their brilliant affair of the present social season, in the form of a spring dance on Friday nite. It was a bit wet, but most of that dampness was due to the rain, thank goodness. The young man who made the embarrassing gesture toward one of the chaps. may rest easy, as I am sure that he is forgiven. Among the prominent guests were: Capt. and Mrs. Itchner, Capt. and Mrs. Hodge, and most of the rest of the social world of Rolla. Anyway, 'twas an excellent dance. Just a parting shot—who is the candidate for a position on the local fire house?

Drury; Pfeiffer, Miners, second; Westover, Drury, third. Distance—102 ft. 5 inches
JAVELIN THROW—Won by Machens, Miners; Frey, Drury, 2nd; Wright, Drury, third. Distance—160 ft 4 inches
BROAD JUMP—Won by Lange, Miners; McGregor, second H. Hackett, Drury, third. Distance—20 ft 6 1/2 inches.
MILE RELAY—Won by Miners; Nickel, Tuckett, Shippee, McGregor. Time—3:39.

NEW BOOKS

The library has just received twelve new books to be put on the rental shelf at an early date. These books are as follows:

Ring Around A Murder,
Freedom, Farewell,
Sweden The Middle Way,
Catalyst Club,
Artic Adventure,
Beyond The Singing Woods,
Case of The Sleepwalker's Niece,
Sparkenbroke,
Hurricane,
Heritage of The Bounty,
Beauties And Furies,
Manhattan Murder.

"BEAUTIES AND FURIES" By CHRISTINA STEAD

Sparkling and consistently amusing, this novel by the author of "The Salzburg Tales" partakes of the qualities of a comic-opera. Its purpose is to amuse the reader by evoking the beauties and furies of Parisian life—and also of love. In short, here is presented a diverting tangle of passions and picaresques that unravels itself in a brief interlude, marked off by the arrival of a train in Paris and by the departure later of a train for Dieppe.

Chiefly, the story is concerned with some of the passengers: Elvira, a wasted beauty, who has fled from married life in England; Olivier, her student lover, with whom she comes to live in Paris; Marpurg, a middle-aged lace buyer, who, at once grim and comic, is the friend and enemy of all; and finally, there is Coromandel, a young French girl, inspired and unique. Certain supplementary persons also appear, most of them related to the central characters by being hangers-on at a "smart" Paris cafe; among others are lace-manufacturers, lace-factors, an enterprising swindler, Coromandel's half-mad mother and father, a refined sensualist.

Fate, spinning the plot and ably aided by Marpurg, drives all these persons through their vanities, disappointments, and shallow flirtations, and eventually there clearly emerges a tacit study of modern middle-class metropolitan types, done lightly, amusingly, and persuasively. Miss Stead, in short, has again proved that she is a rising star in the literary firmament—a master of fancy and realism alike. From D. Appleton-Century Co. —M.S.M.—

THE BRAIN TEASER

Last week's Boy Scout had 15 apples.

If a brick weighs 3 lbs. and half a brick, what does a brick and a half weigh? That is an easy one to make you feel smart.

Here is another to boot! How long can you continue to place 7 horses in 7 stalls—in a different arrangement each day?

—Courtesy Louis Allis Messenger



Poem

I wish I were a moment
In my professor's class.
For no matter how idle moments are,

They always seem to pass.

The Oredigger.

Professor of Ethics: "I will lecture today on liars. How many of you have read the twenty-fifth chapter?"

Nearly all raised their hands.
Prof: "That's fine. You're the very group to whom I wish to speak. There is no twenty-fifth chapter."

Exchange.

I wish I were a kangaroo,
Despite his funny stances,
I'd have a place to put the junk,
My girl brings to the dances.

The Columbus.

Courtship consists of a man's run-

Kappa Sigma Dance A Huge Success

The Kappa Sigma Fraternity terminated its social program for the present season with its annual spring dance, which was held last Saturday. James Gilmore and his orchestra furnished the music for this sport dance.

The chaperones who were present at this delightful social function were: Mr. and Mrs. Fuller, Mr. and Mrs. McQueen, Doctor and Mrs. Smith, and Mr. Armsby.

The success of the dance was enhanced by the large number of out-of-town guests who attended.

nig after a girl until she catches him.

Exchange.

Prof: I will not begin today's lecture until the room settles down.

Voice from the rear: Go home and sleep it off, old man.

Black & Blue Jay.

Bum: "Say, buddy, could you let me have a dime for a cup of coffee?"

Wise Man: "A dime? I thought coffee was only a nickel."

Bum: "I know, but I gotta date."

Widow.

Ed Ballman, M. S. M. Cynic, Says: People who live in glass houses shouldn't.

One magazine says that what a woman needs is: up to the age of 14—good health and good parents; from 14 to 40—good looks; from 40 to 60—personality; and from 60 on—cash!

PROGRAM

ROLLAMO THEATRE

Matinee Saturday and Sunday

Matinee: 1:30 and 3:30

Night: 7:15 and 9:00

Wednesday & Thurs., May 6-7

Robert Montgomery and Myna Loy in

"PETTICOAT FEVER"

"Nutville", "Little King",

World News Events

World News Flashes

Admission, 10c and 36c

Friday, May 8, Matinee & Night

Edward Arnold in

"CRIME AND PUNISHMENT"

Also

"Stylish Stouts"

Matinee 2:30, Night 7:15 and 9:00

Admission 10c and 25c

Saturday, May 9th

Matinee and Night

Warner Oland in

CHAS. CHAN at THE CIRCUS

Also

"Life at 40," "How To Sleep,"

"Tarzan"

Admission Matinee 10c and 15c

Night 10c and 25c

Sun. and Mon., May 10 and 11

Irene Dunne and Robert Taylor in

"MAGNIFICENT OBSESSION"

Also

"Westward Ho," "News Flashes"

Sunday Matinee 10c and 25c

Nights 10c and 36c

Tuesday, May 12, Bargain Nite

Ross Alexander and Anita Louise in

"BRIDES ARE LIKE THAT"

Also

"Consilient," "Topics,"

"Parrotville Fire Department"

Admission 10c and 25c or

TWO for 10c and 36c

Coming Soon

ON OUR STAGE

W. L. S. Barn Dance

CIVIL MEETING AT HOT SPRINGS WELL ATTENDED

Proceedings of 83rd Annual Meeting of A. S. C. E. Described By Head of M. S. M. Chapter

By James H. Menefee

C. E. Bardsley and C. V. Mann, professors in the Civil Engineering and Engineering Drawing, accompanied by James H. Menefee attended the 83rd annual spring meeting of the American Society of Civil Engineers held at Hot Springs, Arkansas, April 22 to April 25, inclusive.

The meeting was well attended by engineers and engineering students from all over the United States. Many papers were presented stressing the importance of developing the Mid-South and flood control in the Mississippi Valley.

George R. Clemens, army engineer of Vicksburg, Mississippi, and president of the Mid-South section of the society, presided at the opening session, later turning the gavel over to D. W. Mead, Madison, Wis., national president.

In a paper on the industrial development of the lower Mississippi basin, Harvey C. Couch, former Reconstruction Finance Corporation director, and head of power companies operating in the Mid-South, told that "it is prophesied that within the next two decades this area will lead the entire country in an industrial development such as we can scarcely dream of at this time."

A greater oil industry for the Mid-South and made wide-spread occurrence of oil development was predicted by Col. T. H. Barton, president of the Lion Oil Refining Co., El Dorado, Arkansas.

A paper prepared by L. W. Baldwin, president of the Missouri Pacific Lines, said the future of the carriers in the Mississippi valley and the Southwest "can be contemplated cheerfully and optimistically" but condemned the trend toward government control of transportation.

He asserted that the federal government's function with respect to transportation should be confined to co-ordination and stabilization of the various facilities.

Grover T. Owens, president of the Little Rock Chamber of Commerce and active in flood control movements, urged the engineers to support a billion dollar reservoir system in the Mississippi valley as a

measure of "flood prevention."

"Nature has been good to the Mid-South," said Earle W. Hodges of the Cities Service Corporation, New York, in presenting a survey of the area's natural resources and asserting that "only a fair start" has been made on their development.

From Brig. Gen. Harley B. Ferguson, Vicksburg, president of the Mississippi River Commission, the waterways section heard how army engineers were taking some of the kinks out of the lower Mississippi as an aid to navigation and a contributing factor in the continuous war against floods.

General Ferguson showed how twelve cut offs had been constructed on the Mississippi from Arkansas City, Arkansas, to Angola, La., which resulted in shortening the river by 100 miles over a 400-mile stretch. He said the work gave the river a greater flood-carrying capacity and had already lowered the water surface appreciably.

Gerald H. Matthes, of the Vicksburg engineers' office, outlined in detail the model now being tested at Vicksburg for the Conchas dam on the South Canadian River near Tucumari, N. M., asserting it would control floods on the river, have a water storage capacity sufficient to irrigate 65,000 acres of land near Tucumari, and provide a domestic water supply for Tucumari and Amarilli, Texas. The construction contract is expected to be let July 1st.

Successful pouring of concrete with the temperature 17 degrees below zero on the Fort Peck, Montana, PWA reservoir project was described in a paper prepared by Major T. B. Larkin, district engineer in charge. The project is planned to improve navigation on the Missouri River from Sioux City, Iowa, to St. Louis by maintaining an 8- to 9-foot channel throughout the navigation season.

Speaking before the sanitary engineer division, Charles B. Burdick, Chicago consulting engineer, said that the average cost of water in the United States is less than two cents per day per capita, "a very small figure compared to other family expenditures" although a prime necessity of life. He described recent developments in the purification and softening processes.

If the doctors would let the engineers alone the malarial control in the Mid-South would progress much more rapidly stated Col. J. A. LePrince, Sr., Sanitary Engineer, U. S. Public Health Service, Memphis Tennessee.

Unique features of the recently constructed sewage treatment project at Hot Springs was described by E. L. Filby, Asst. Engineer, Black & Veatch, Kansas City, Mo.

Rufus W. Putnam, president of the Maritime Engineering Corporation, Chicago, spoke in advocacy of the national policy of developing inland waterway transportation.

Thursday afternoon a conference of student chapters was held. Dr. C. V. Mann, head of the Drawing Department, Missouri School of Mines, presented a very interesting and educating talk on his developments in Engineering Education. The representatives at this conference took a great interest in Dr. Mann's work proving that this

Collegiate Digest Offers Prize For Best Letter

Two important announcements of interest to students of the School of Mines are found in today's issue of Collegiate Digest, The Miner's weekly rotogravure section.

In connection with an outstanding article on the "why" of collegiate motion pictures, the movie editor of Collegiate Digest is offering a prize of \$10 for the best letter offering constructive criticism or defense of the collegiate motion pictures. This contest is open to both students and faculty members. A second prize of \$5 is offered for the runner-up in this contest.

A beautiful sunset lake-scene photograph of full 8 by 10 inch size is offered free to all students or faculty members of the School of Mines who send 10 cents in stamps or coin to cover cost of wrapping and postage. This is truly an outstanding offer, for the original photograph offered to our readers is a beautiful piece of photography by Frederick Kaeser II, one of the middle-west's outstanding young photographers. Requests should be addressed to Collegiate Digest, P. O. Box 472, Madison, Wisconsin.

—M.S.M.—

Penn State R. O. T. C. Officers Under Fire

The Committee on Militarism in Education has written to the War Department demanding disciplinary action against Maj. Arthur F. Bowen, one of the officers in charge of the R.O.T.C. unit at Pennsylvania State College.

Maj. Bowen is charged with having compelled two low-score men in target practice to run the gauntlet and submit to a flogging from 100 other students, armed with heavy web-and-brass reinforced belts. A student who refused to join the floggers received a tongue-lashing from a sergeant and a lecture on the inadvisability of being a slacker in the army.

An editorial in the Penn State College, student paper, castigated "this example of storm-trooper sadism, the most shocking and disgraceful method the local group of jingoes comprising the military department has ever devised to stimulate interest in their so-called 'citizen training' education program."

—M.S.M.—

SO SURELY TIME

One little raindrop
Then there were a score.
One little tear-drop
And must there be more?

One heart is pining
Others may know and understand—
One heart almost broken,
Ah! can it be her lover holds
another's hand?

One little ear ever listening
For a gentle knock on the door;
Another sob quite smothered,
While it lists for an engine's roar.

One little hour, then minutes
Oh, so slowly they pass,
Only Time can bring or not bring
Her love to the little lass.

—M.S.M.—

Could This Be True?

One evening as they were strolling across the campus they saw a cow and calf rubbing noses in the accepted bovine fashion over the golf course.

"Ah," said Grewis, "that sight makes me want to do the same."

"Well, go ahead," said the girl (name withheld), there's the cow—who's holding you back?"

—M.S.M.—

Dad—"Why were you kissing my daughter in that campus spot?"
Smart—"Now that I've seen her in daylight, I sort of wonder myself."

work is not in vain and will go a long ways in selecting engineers for the future.

Friday, an all-day excursion trip to Arkansas City and Lake Village, Arkansas, was made to inspect Mississippi River projects including the famous cut-offs at the Greenville bends.

Saturday, the party took a trip to Bauxite, Arkansas and made an inspection of the Bauxite mine there.

THE ADVANTAGES IN CHOOSING ENGINEERING

Engineering Develops Qualities The World Needs—Advice To Graduating Engineers. Contributed To Missouri Miners By William G. Maloney

As the senior year in college draws to a close, one experiences a feeling of restlessness, a feeling of more anxiety along with a keener sense of general ignorance and inadequacy than he did during any of his previous years. He is continually asking himself, "What Am I Prepared To Do?" but more important still, "What Do I Really Desire To Do?" Having satisfied himself with a reasonably good answer, he turns his attention to the more immediate question of "What Is My First Step?"

It so happens that at this stage in a fellows life, he passes from a state of dependence to one of self support. He probably will no longer be assured an allowance from the folks at home, but instead, he passes into a state of absolute uncertainty.

It is true that the feeling of uncertainty is probably greater for those finishing a four year course consisting of arts and sciences or some other curricula that doesn't particularly stress any one profession, but it is also true that this same feeling exists in the minds of those who have specialized in one subject.

There are two temptations which usually come to a graduate from any college. One is to find a way to remain in the school as an instructor, etc., because of his love of his Alma Mater, and the other is to go home and work for his immediate family or relatives.

A solution for the first problem has been offered by some educators, and that is the wisdom of spending one's first two years in one college and the last two years in another. However, I am inclined to believe that due to the slight chance for such an ending, the extra cost and trouble isn't justified. I believe most every one can see the bad points in the second temptation, (working for one's own folks), it is an accepted fact that it is impossible for a father to treat his son as he would treat any other employee. It is natural for him to look upon you as still a boy and the result will be that he will probably treat you as such, or in other words he will do a lot of your thinking for you. The chances for a fellow succeeding, due to his own initiative, are somewhat diminished when he accepts this latter temptation as his only way out.

With all these problems in mind a person would be justified in asking, "just what course in college prepares me the best for the problems in life?"

The older professions that have been accepted by many students are those of law, medicine, teaching and preaching. An analysis of these professions as has been made by prominent educators, reveal that lawyers in general are often little more than high grade advisors in business affairs. Successful ministers are those who know how to organize and set things in motion. They agree that the world still needs men who can successfully manage and teach schools in cities

and towns. Their analysis has found that the practice of medicine is more independent and self centered than the other professions in that the doctor usually works somewhat alone. After an extensive study, these educators agreed upon the fact that the world is in need of a new set of qualities other than those that can be offered by these courses.

It is fortunate indeed that a college bred man is no longer shut in to the four old time professions. Engineering in any one of its phases—civil, mechanical, electrical, mining, etc., offers one a chance to develop this new set of qualities that the world needs and desires.

The engineering field differs from the older professions in that there is room for ingenuity, invention, originality, and analytic ability. These qualities and many others are developed in a person when he chooses to take an engineering education. It is these qualities that are needed in this world and whether one follows his particular branch of engineering or not, he hasn't lost his decision.

One is not to get the impression that there is no opportunity to make direct use of Latin, French, higher mathematics, philosophy, history, or literature, but there is a special demand for the trained analytic mind, the keener perception and more accurate thinking along with the greater power of concentration. These are the qualities that are developed in an engineering education. Therefore there is no direction in which the engineering college man may not turn with little fear of failure.

Every one will agree that no matter what a person gets into after having finished his college term, it is totally up to him to hold his job. One may find a place by luck, but he can never hold it by luck alone. He must have other qualities in order to insure himself of a steady position.

As a direct answer to the question of "Where Do I Go From Here?" I will quote from a prominent writer, "Do Anything Honorable Rather Than be Idle. Do that which is nearest at hand and do it not only well, but best."

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MINER SPORTS



M.I.A.A. MEET AT SPRINGFIELD, FRIDAY

Six M. I. A. A. Teams To Compete at Springfield in Track Tennis And Golf

Springfield, Mo., May 6:—The Cape Girardeau Indians will be topheavy favorites to repeat their 1934 championship here Friday night when the M. I. A. A. schools convene for their annual track and field meet.

Running hand in hand with Cape in the favorite's row, will be Maryville, built around the great star, Herschel Neil, who brought the eyes of Olympic focussing on the MIAA after his outstanding performance in the century and hopstep-and-jump during the Drake Relays. Warrensburg with two aspiring, decathlon men, Teegarden and Marsden, will be another topnotcher in the floodlight meet.

Interest in the conference feature as well as the class of contestants who'll perform, has led Don Faurot of Missouri University, member of the state's Olympic subcommittee, to designate it as an Olympic try-

out. Thus, first, second and third placers will be allowed to participate in the semifinals next month at Chicago.

The Bears won the first meet for the five state teachers colleges in 1924, after the MIAA disbanded. Before that nearly all Missouri colleges participated in the MCAU, which went by the boards in 1915.

Springfield repeated the next year, then suffered a track drought, and didn't come back until 1933 when the famed Joe Killion winged them to victory. They earned a tie with Kirksville in 1931, however. No meet was held in 1932. The Missouri School of Mines at Rolla was admitted to the MIAA in 1934 and has participated in two recent meets.

But, as for Springfield's chances: if their showing against the classy Arkansas University track and field powerhouse last Friday means anything, the STC thin clads will be at peak form by Friday.

Although Coach McDonald's charges were far outclassed, they kept right on the heels of the husky Razorbacks and came within a hair's breadth on several occasions of matching existing conference records.

But it won't be clear sailing for the darkhorse, with Kirksville and Rolla certain to lend a sizeable amount of point winners to competition.

The latter has Bob Lange, high jumper extraordinary, who'll be featured in a duel with the rubberlimbed Godard of Cape. Jim McGregor will carry the Miner colors in the dashes and broad jump, and if he's in shape, he'll be hard to nose out. Captain Buran Brown of Rolla will offer some stiff competition for Springfield's Bench in the two mile. Brown has lost only one race in that event this year—to Beasley of Missouri University. Another expected point winner from Rolla will be Ed Ballman, half miler, who's slowly recovering from an illness which kept him out of all but one meet this year.

Kirksville's big guns likely will be Teeters in the mile and Baxter in the weights. The latter holds both conference records in the discus and shot but has been slow rounding into form this season.

Other athletic stars due to parade here include McLane, of Cape, probably the state's classiest hurdler; White and Ferguson, Cape, shot, and Porter, Kirksville, pole vaulter.

—M.S.M.—

A City University, embracing all of New York's schools, has been proposed by Hunter and NYU authorities.

—M.S.M.—

College and grade school teachers in Massachusetts have organized to protect themselves from "pressure groups seeking to regulate their activities."

FACULTY-SIGMA NU PLAY BEST GAME

Seventeen Errors Committed By Both Teams In Seven Innings

Faculty (8), Sigma Pi (4)

The Faculty won another by defeating the Sigma Nu's 8-4. Kirchoff had a bad first inning but he settled down to hold the Sigma Nu's to 1 run after the first frame. The Faculty went scoreless until the fourth inning when they pushed across 2 runs and the 5th when they counted 4 more. Stout came through for the Faculty with 3 out of 4 while Eggleston continued his hitting by bagging 2 out of 3.

Faculty000 242 20—8
Sigma Pi300 000 10—4

Triangle's (11), Kappa Sig's (3)

The Triangle's tromped on the Kappa Sig's to the tune of 11-3. The Kappa Sig's collected 5 hits off Stewart while the Triangle's hit Ruemmler for 9 safeties. Alexander hit a homer in the third which accounted for some of their 7 runs in that inning. The Kappa Sig's hits were divided evenly among their heavy hitters. Stewart and Rector of the Triangle's each had 2 out of 3.

Kappa Sig's002 001 0—3
Triangle's007 004 —11

A. L. T. (14), Mercier (7)

A. L. T. went on a hitting spree to nick Scheer for 12 hits and 14 runs. Glaser was hit for 10 safeties but he kept them divided enough so that the Mercier's scored only 7 runs. Picco of the Mercier's had a perfect day at bat with 3 out of 3 while Dougherty collected 3 out of 4. Most of the runs were the result of the 18 errors committed in the game—10 by the Mercier's and 8 by A. L. T.

A. L. T.802 103 0—14
Mercier200 221 0—7

Lambda Chi (18), Sophomore's (6)

The hard hitting Lambda Chi's continued their battle on rival pitchers by hitting Ballman for 18 runs. Reed kept the 9 Sophomore hits scattered so that they scored only 6 runs. Beckman and Harky each had 2 out of 3 for the boys across the tracks. Reed was very effective against the Sophs and he kept all their big guns silenced very well.

Sophomore's014 000 1—6
Lambda Chi331 081 2—18

Freshmen (8), Triangle's (7)

The Triangle's split even for the week by losing to the Freshmen 8-7. Underwood held the Triangle's to 5 hits while his teammates succeeded in pushing 3 runs across in the 6th inning to win the game. Mooney, Freshman, had a perfect day at bat with 2 out of 2. Reese succeeded in getting 2 of his teams 5 hits off Underwood. Stewart issued no free passes while Underwood gave 5 bases on balls but was also credited with 11 strikeouts.

Triangle's015 000 1—7
Freshmen000 233 3—8

Sigma Pi (4), Pi K. A. (2)

The Pi K. A.'s lost their first game of the season in a hard fought game with the Sigma Pi's. Harwell limited the "boys on the highway" to 2 hits and 2 runs. Pfeiffer was nicked for 4 runs and 7 hits. Gardner had 2 out of 3, while Holman and Blazovic were responsible

Summaries

Summaries of the Missouri, Warrensburg, Miners Track Meet held at Columbia, Mo., last week.

TWO MILE RUN—Won by Beasley, M. U.; Brown, Miners, second; Hayden, M. U., third; Tittle, Miners, fourth. Time—10:11.8

100-YARD DASH—Won by Hauenstein, M. U.; Mahley, M. U., second; McGregor, Miners, third; Brown, M. U., fourth. Time—10.4

220-YARD DASH—Won by Hauenstein, M. U.; Mahley, M. U., second; McGregor, Miners, third; Love-ridge, Miners, fourth. Time—22.9

220-YARD LOW HURDLES—Won by Walker, M. U.; Bishop, Miners and Wood, M. U. tied for second; Shultz, Warrensburg, fourth. Time—25.9

HIGH JUMP—Won by Lange, Miners; Kelly, M. U., second; Hatfield, M. U., third; Teegarden, Warrensburg, fourth. Height—6 ft. 2 in.

for their 2 hits.

Pi K. A.100 001 0—2
Sigma Pi000 102 1—4

Sigma Nu (7), Faculty (6)

The Faculty lost their first game of the season to the tune of 7-6. The Profs put up a good battle but the snakes succeeded in pushing too many runs across the plate. Thomas showed the boys how it should be done by driving out a long home run over Wommack's head. That started the Faculty on a hitting splurge but Holliday was called into the box and he soon retired the side. The Faculty had a bad day in the field and committed 8 errors. The Sigma Nu's could not be outdone so they booted the ball 9 times.

Faculty

Player	Pos.	AB	R	H
Grant, 2b		4	2	0
Itchner, sc		3	1	0
Brown, 3b		3	1	1
Kirchoff p		3	1	0
Stout, ss		3	0	1
Zvanut, rf-1b		3	0	0
Meckfessel, lf		3	0	0
Schrenk, 1b		2	0	2
Carlton, rf		1	0	0
Rankin, cf		3	0	0
Thomas, c		2	1	1

Sigma Nu

Player	Pos.	AB	R	H
Hatten, cf		4	0	0
Wommack, lf		3	2	0
Bliss, 1b		3	0	2
Holliday, 3b-p		3	0	0
Adams, sc		3	0	1
Grewis, ss		2	1	1
Howerton, rf		3	1	2
B. Folsom, c		3	1	0
D. Folsom, 2b		3	1	2
Peters, p-3b		3	1	0

30 6 3

Faculty200 004 0—6
Sigma Nu121 100 2—7

Dr. Vaughn L. Partridge DENTIST

Office in Scott Building
Phones: Office 198; Res. 623W
ROLLA, MISSOURI

JAVELIN THROW—Won by Hatfield, M. U.; Denney, M. U., second; Machens, Miners, third; Lockner, M. U., fourth. Distance—178 feet 9½ inches

BROAD JUMP—Won by Mahley, M. U.; Denny, M. U., second; McGregor, Miners, third; Teegarden, Warrensburg, fourth. Distance—21 ft. 10 inches.

120-YARD HIGH HURDLES—Won by Cain, Warrensburg; Woods, M. U., second; Walker, M. U., third; Shultz, Warrensburg, fourth. Time—16.0

SHOT PUT—Won by Lochner, M. U.; Teegarden, Warrensburg, second; Mason, M. U., third; Mahley, M. U., fourth. Distance—42 ft 11½ inches

DISCUS THROW—Won by Lochner, M. U.; Teegarden, Warrensburg, second; Forman, M. U., third; Reese, M. U., fourth. Distance 124 ft. 8 inches

MILE RELAY—Won by Missouri; Warrensburg second; Miners, 3rd. Time—3:30.3

POLE VAULT—Won by Marsden, Warrensburg; Mahley and Reese, M. U., and Humphrey, Warrensburg tied for second. Height—11 ft. 6 in.

440-YARD DASH—Won by Snipe, M. U.; Bushhead, M. U., second; Bapste, Warrensburg, third; Nickel, Miners, fourth. Time :50.4

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IRA REMSEN

Genten and starch are separated from each other by the flotation process, and the starch remains on the plates in a hard, cement-like block. The starch is purified and used to produce other chemicals on in the household. Genten is used for feeds.

A concenter, which is a high pressure reaction kettle, is used to convert starch into corn syrup by hydralysis with hydrachlonic acid. The process is regulated by the color of a starch test made on the reaction at timed intervals.

The candy industry uses one billion pounds of corn syrup annually in the manufacture of hard candy. Corn syrup and sugar are needed in the processing of rayon. Dextrose, is used in the brewing industry, and in the leather industry for filling. Caramel color, a product developed by Fetzter is an artificial color used in beer, wines, hair tonic

and fountain beverages.

Slides were shown of the plant and a discussion followed. An interesting question that was asked was the caramelizing temperature, and Mr. Fetzter objected because this is a trade secret.

—M.S.M.—

ALPHA CHI SIGMA

Herman A. Brisch, Richard J. Cardetti, Robert L. Cunningham, Thos. G. Day, Thos. S. Donahue, Howard L. Dunlap, Oscar H. Fager, Edw. C. Fiss, Arthur P. Hausmann, Milton L. Herzog, Peter Janni, Howard F. Lange, Clemens R. Maise, Edwin C. Meckfessel, Leo H. Merchie, Herbert G. Mortland, John S. Sabine, Walter T. Schrenk, Elmer L. Smith, Ralph H. Striker, Hoyt G. Thompson, Elmer W. Volz, Frank J. Zvanut.

Collegiate Chapters of Missouri University and Washington University, Delta and Alpha Epsilon respectively, were well represented at

the installation and ceremonies.

At the conclusion of the program a group picture was taken of the installation team, guests, and of the chapter members.

—M.S.M.—

MAJ. BOLLES

alike in that the work is mostly detail work. The training which the West Point graduate's receive at their various branch schools corresponds to the first year or two of the regular college graduate's life when much of his job is acquiring experience.

In the army an efficiency record is kept of the young officer's progress and his assignment to a certain branch may depend on this record. Large corporations also keep a record of the progress of a young man entering their employ, which may have much to do with his advancement. Thus it may be seen that the whether he be in the army or in business, it is desirable

that the young man have a good efficiency report.

Many of the duties of the army lieutenant and the young engineer are similar. They both handle men, must perform field duties, they may have small administrative and executive duties, they must be able to work fairly rapidly, and must pay close attention to their work. While Force, Cooperation, Leadership, and Judgment, are excellent quality for the young lieutenant and engineer to possess perhaps the

most important qualities in General Bolles' opinion are Character, Integrity, Independence, Loyalty, and above all, Uniformity of Performance.

In closing General Bolles told the students that when they graduate from college they become a part of the body politic, and he urged them to vote for American ideals and be good citizens.

—M.S.M.—

Remember Mother's Day

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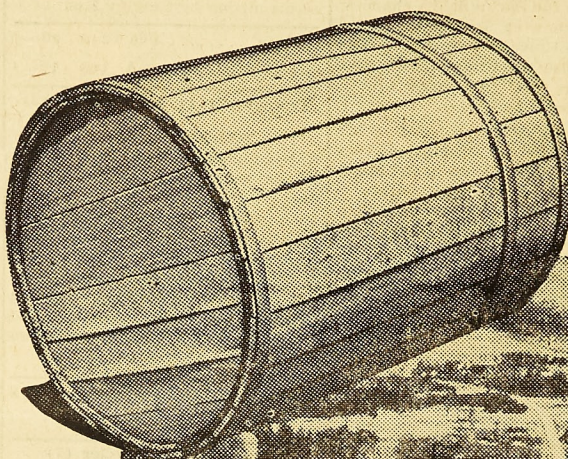
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*...what's happening
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—the curing and ageing of leaf tobacco,
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Thousands of hogsheads of mild ripe tobacco are under these roofs... just lying here ageing and sweetening and mellowing for Chesterfield cigarettes.

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tobaccos getting mellow and milder
for the cigarette that Satisfies.*



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