



14 Nov 1942

The Missouri Miner, November 14, 1942

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THE MISSOURI MINER

Missouri School of  Mines & Metallurgy

VOLUME 29

SATURDAY, NOVEMBER 14, 1942

NUMBER 18

Miners First Homecoming Back In 1915

Today the Miners are celebrating Homecoming an annual event which has been looked forward to by the alumni as well as the student body of the School of Mines. During the years since about 1915, there have been many Homecoming games which have brought out the old Miners as well as the new ones.

In past years the Homecoming celebration began with a parade through Rolla. This parade consisted of members of the student body, alumni, detonators, and a group of floats representing the social organizations of the campus. Following the parade everyone adjourned to the football game, and then in the evening to the Homecoming Ball. This year, however, there have been some slight changes; the floats which were enjoyed so much by the students will be absent this year because of the tire and associate rationing, but there is going to be a new attraction in the Interfraternity Sing which will take place in the auditorium from 7:30 to 10:00.

The Miners record in regard to winning their Homecoming game is not at all impressive because it seems that ever since the first Homecoming game the Miners have not won a single game. They have, however, tied two of these games. This year the Miners seem to have the team to break this record, although Coach Bullman says that it's going to be our hardest game.

Cape Girardeau, the team the Miners play this week-end, appears to be the team to beat in the MIAA. They have an impressive record which shows that they have a team which will be hard to beat. This does not mean however, that the Miners should not be able to do so, because their chances of winning the MIAA depend upon whether they win or lose this game.

The Homecoming Ball, which will be sponsored by the St. Pats Board, will take place in the gym and will begin immediately after the Interfraternity Council Sing at about 10:00. The music will be furnished by the University orchestra.

M Club To Hold Initiation Nov. 27

Last Thursday evening at 7:00 the M club met to discuss plans for the initiation of new members. All trackmen who made letters this spring and all of the football men who will make letters this fall are eligible for membership in the M Club. The date selected for the initiation is Friday, November 27.

KSD To Feature MSM Program

Plans are now being made for the Missouri School of Mines to be featured on the radio program "Tic Toc Time" over Station KSD from the Municipal Auditorium in St. Louis Monday evening, December 28th.

The program will be built especially around the Missouri School of Mines and will afford much publicity for the school.

"Tic Toc Time" is a radio quiz and variety show sponsored by the Hyde Park Breweries and features the international singing star Kay Thompson, the six Kaydebs, the well known NBC Breakfast Club—emcee, Don McNeil, and the popular music of Russ' David's Orchestra. The quiz contestants are taken from the audience and a considerable sum in war stamps is awarded.

The program is a weekly feature over Station KSD on Monday evenings at 9:30 p. m.

The program will be broadcast from one of the Municipal Auditorium's music halls which seats 700. 600 of the tickets will be distributed to St. Louis alumni, students and dates as soon as possible.

Tickets are complimentary and no charge is made whatever.

Since December 28th is during the Christmas vacation and since the majority of the students live in St. Louis or vicinity it is presumed this majority will be on hand to make the program a success in every way for the school and the sponsors.

Remember the date and get a date for MSM's own radio show.

First Aid Classes In Chem. Building

Wednesday evening from 7:30 p. m. to 10:00 p. m., the first aid classes of the Civilian Defense Program met in room 103 of the Old Chemistry building. For some time the classes have been held at the high school, but the chemistry building is more suitable, as the seats offer more comfort to the adult, person.

All over the nation today, as part of the national emergency programs, classes of volunteer first aid workers are in progress. Already a great number of persons have completed the course.

In Rolla, the class is under the expert guidance of Professors Walsh, Rankin, and Goodhue, of the Missouri School of Mines.

When the course shall have been completed successfully, the students will have learned all common practices of first aid; such as the stopping of bleeding by application of the tourniquet and knowledge of pressure points; resuscitation of persons suffering from shock or drowning; treatment of fractures.

Graduate first aid workers will relieve many a trained nurse for army duty.

More Interviews For November

The Registrar's Office has arranged a new list of manufacturers who wish to interview the graduating seniors. In the following weeks several important concerns will visit MSM campus. They are:

Friday, November 13 — Westinghouse Electric & Manufacturing Company will be represented here by Mr. M. V. Maxwell and Mr. F. C. Schneeberger. They desire interviews with Electrical, Mechanical, Chemical, Metallurgical and Mining Engineers. Interviews will begin at 9:00 a. m. Each interview will last 15 minutes.

Monday, November 16 — Bethlehem Steel Company—Mr. A. M. Rupkey will interview January or May graduates from any department. Individual interviews will be of 15 minutes length beginning at 9:00 a. m.

Tuesday, November 17 — General Motors interviews will begin at 9:00 a. m. and last until 5:00 p. m., 15 minutes for each individual. Interviews handled by Mr. E. L. Yates of the Detroit office, interested in Mechanical, Electrical, Chemical, Metallurgical, Civil, Engineering physics majors.

Friday November 20 — Pittsburgh Plate Glass Company. Mr. F. R. Elmore will see Chemical and Mechanical Engineers. Interviews start at 1:00 p. m. Fifteen minute intervals until all the interested boys have been interviewed.

Monday and Tuesday, November 23 and 24 — Curtiss-Wright. Mr. Andrews will interview seniors in any department, beginning at 8:00 a. m. on the 23rd. Twenty minute intervals, lasting until all interested men have been seen.

Blue Key Elects New Officers

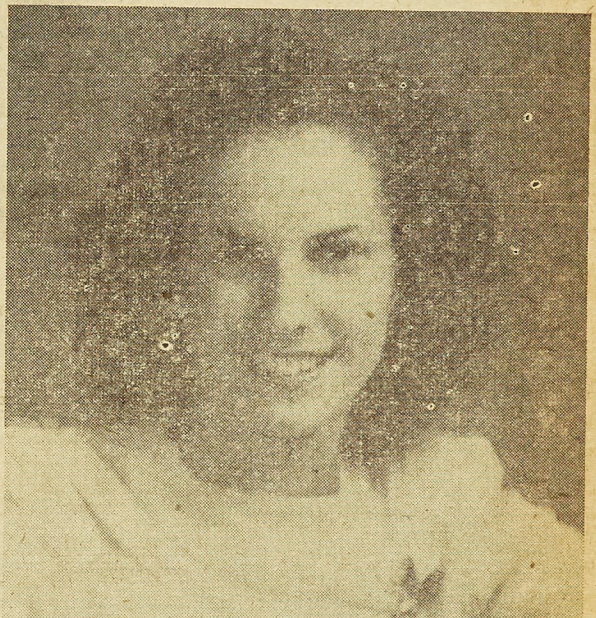
The Blue Key honor fraternity held its annual election last Tuesday, in the club room of the Metallurgy building. Besides the election of officers for the coming year, there was a short business meeting.

Charlie Mitchell was elected President to succeed Kent Comnn. Charlie is a member of Theta Tau and he is Sports Editor of the Miner.

Harry Scott, a junior and member of the Engineers Club was elected Vice-President. Ed Goetemann, Managing Editor of the Miner and a member of the Theta Kappa Phi fraternity, was elected Secretary. Bill Clark, Pi Kappa Alpha, was elected Treasurer.

At the business meeting plans for installing a public telephone in the gymnasium were discussed. Also a committee was appointed to investigate juniors and seniors for pledgship to the Blue Key.

Adele Katz To Be First Winter Carnival Queen



With the coming of the first Winter Carnival celebration in the history of old MSM, there comes a new Queen and a new group of Maids to reign over their Court of celebrating Miners. Similar to the custom at each St. Pat's celebration, so it is now that

Dean Explains Early Graduation

The petition of the senior class of Missouri School of Mines and Metallurgy, addressed to the faculty, was given careful consideration by the faculty at its meeting on November 10, 1942.

After carefully weighing all of the factors involved, the faculty voted unanimously to deny the petition. It was felt above all that Missouri School of Mines and Metallurgy has accelerated as much as any engineering school in the country and more than most. An intensive Summer Session has just been completed making graduation at an earlier date possible. Further, the waving of six credits of the usual graduation requirements has been authorized. To grant the petition of the seniors to advance Commencement date to December 22 would in the estimation of the faculty further lower graduation requirements to a level not in keeping with the high standards of this institution.

Since the fall of 1941 the faculty of Missouri School of Mines and Metallurgy in frequent meetings and through various committees has given minute attention to its

a Queen of Love and Beauty be chosen to be attended by those who possess the qualities of loveliness and beauty, the Maids of Honor.

Missouri School of Mines is proud to present the Winter Carnival Queen, Miss Adele Katz. Miss Katz is indeed well prepared to assume the position of royalty that has been bestowed upon her. Miss Katz has been a regular attendant at almost every Miner dance for several years and has become one of the most popular and widely known girls in Rolla.

Miss Katz, who is now 18 years old, was born in Kissimer, Fla., April 2, 1924. When she was five years old, her family moved to Rolla where she has lived since that time. She was a very active member of her high school class and was Editor of the Rolla Hi-Echo during her senior year. She was graduated from the Rolla High School with the class of '41.

Adele is a better than average, good looking American girl. She is a brunette, five feet four inches tall, has sparkling brown eyes, weighs 115 pounds and has a most beguiling and friendly nature. She is very fond of dancing and her favorite band is Glenn Miller as to her favorite movie star, Nelson Eddy holds top spot. At present Adele is

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THE MISSOURI MINER



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LETTERS TO EDITOR . . .

Dear Editor:

Is the "Missouri Mines" still in operation? Haven't heard much about the old school in many months.

I doubt if many students still remembers me, for I left school in January of '42. That seems such a long time ago. If you know somebody that would be interested in the doings of some of the old students, let me know. We of the Navy are still thinking of them.

Among those present: Jack Emery, Sigma Nu — gets his wings next Friday.

Since I have been here, I have seen Bob Bruce, Nelson Woods, and Schroder, Mathews, and many others. The above named are officers giving instruction here. Among the cadets are Robert Cook, Russ Hollander and Red Elliott.

For myself I am in Dive Bombers and have about three weeks before finishing. The time goes so fast and the lack of news about others from school, doesn't help matters any.

If it is possible I would like you to write and tell me how I can again get the "Missouri Miner." I'll be anxiously awaiting a reply.

William H. Brown, '42
U. S. N. Air Station,
Kingsville, Texas.

Clayton Speaks At Theta Tau Smoker

A smoker was held for the benefit of potential pledges of Theta Tau, Professional Engineers' fraternity, at the club room, last Tuesday evening, November 10. About 50 men, all who are either Sophomore or Juniors having maintained at least a one point grade average since they began school, attended.

Professor Charles Clayton was the principal speaker of the evening. He gave an interesting and timely talk on "Metals at War."

Dwight Schooler, Assistant Professor of Engineering Drawing, Theta Tau '26, explained the purpose of the fraternity to the men.

After the smoker a regular meeting was held in which plans for the forthcoming dance of November 21 were discussed.

"Ahem, Gentlemen beware of the girl who runs her fingers through your hair. She's out for your scalp!"

Interfrat Sing Feste Tonight

On Tuesday evening the Interfraternity Council held its last meeting before the Interfraternity Sing which is to be held on Saturday evening before the Homecoming game. This activity will be participated in by a glee club representing each fraternity on the campus. They will each render two selections, one is to be a fraternity song and the other is to be any song of their choice. Each glee club will consist of not more than sixteen members and not less than twelve. A traveling plaque will be awarded to the winner. This award will be based on the decision of the Judges who are: Rev. and Mrs. Hunter, Mrs. Lovet, Mrs. Black and Mr. Scott.

In this meeting they also made plans for giving an award to the "Fraternity Man of the Year." For this award the individual fraternities will nominate a man who will be judged by the faculty advisers of the fraternities. After the judging the winners name will be announced and his name will also be placed on a plaque to be placed in Parker Hall. The men who are eligible for this honor are those seniors who are members of a fraternity and who are graduating in January. The names of these men will be submitted to the Interfraternity Council and the award will be made upon the date of graduation.

Mailand Strunk Talks Before AICHE Meeting

Mailand Strunk, graduate assistant in the chemistry department spoke before the A. I. Ch. E. Wednesday evening on the production of titanium pigment from the ore.

He described the various steps in the processing of the titanium ore from the time it enters the plant until the finished pigment is produced. Strunk also explained the differences in the various grades of titanium pigment and their superiority over more common paint pigments.

HEH! HEH! PURTY SLICK

Patches—"I take a bottle of gin every night before I go to bed."

Varsity—"Whats the idear?"
Patches—"So I'll sleep tight."

TIME ENODGH

My Girl-Friend slapped my face at four o'clock,
Why?
I kissed her at three o'clock.

Military Dept. To Cease Giving Out Enlistment Advice

The Joint Army and Navy Board has come and gone and all students have had the opportunity to meet them. The Military Department now ceases to give out any advice to students as to the Enlisted Reserve Corps, except (a) the PMS&T will determine whether a man is officer material; (b) the Recruiting Officer will enlist any such man who applies. Men who wish to enlist will call at the ERC office in Parker Hall, after having previously seen the dean who will give any desired advice. The ERC office will also handle applications from juniors and seniors for the Signal Corps and the Navy.

The ROTC will continue to function as part of the School of Mines, and all members who complete the Advanced Course will receive commissions in the Officers' Reserve Corps, even though they do not receive their degree. The War Department will allow the student to stay one term after he completes the ROTC course in order to obtain his degree, but no more. Any call of the ERC to active service will not affect the Advanced ROTC. Basic ROTC students cannot be assured of being enrolled in the Advanced Course, but every effort will be made to defer those selected, so that they may remain in school until they can enter the Advanced Course. Enlist in the ERC until the day they sign the Advanced Course contract.

Engineering college students are in a preferred place, and are expected to remain in college and either become officers or go into industry. Those who cannot graduate will only be allowed until that fact is apparent. Colleges cannot be made refuges for draft dodgers. Men who are officer material owe a duty to the Nation to carry on their education; they also owe the Nation a duty to serve where they can do the best work—to the individual it should not matter whether he serves in industry or the Armed Services, or in which branch. Every young man in this school should be ready and willing to serve in the combat forces—ground, air or sea—and if he is assigned to non-combatant arms or industry, it is not his fault and he should serve there willingly. The Army and Navy do not want officers who are unwilling or who are afraid to fight; neither do they want men who bargain for the job they are to fill. Students should analyze their capabilities, and offer these where they will do the most good. If this offer is not accepted, the student has done his duty, and should cheerfully accept what he gets.

The ROTC wants men for the Advanced Course who will make good officers, and who are willing to fight in the Army. The quota is flexible, and men are asked now to apply, to enter in January, June, or August, 1943; applications may be made up to 10 days after the start of the course, in each case.

FRED W. HERMAN,
Col. C. E. PMS&T

Redhead—I had two blades at my feet last night.

Blonde—Painting the town?

Campus Spotlight

The eyes of the campus turn this week to Fred Radavich. Fred came to the School of Mines in September, 1939, from Greenfield, Mass. In January, he will graduate with a degree in Metallurgical Engineering.

During his four years here Fred has shown outstanding scholastic ability both in school and in extra-curricular activities. Last year he won second prize in the Meramec Iron Works essay contest of \$200. He won the A. I. M. M. E. Scholarship for two years. He also won the Phi Kappa Phi Bookplate Awards for three years.

Fred is a member of the Lambda Chi Alpha fraternity. He is a member of the Tau Beta Pi, Theta Tau and the Blue Key. He is secretary of the A. I. M. M. E. and president of the A. S. M. During his Freshman year he was vice-president of the Missouri Academy of Science.

Besides his active school work he was N. Y. A. assistant in the Metallurgy department for two years and he has been student assistant in that department for two years.

Occasionally during the summer he has worked for the Bureau of Mines. In the summer of 1940 he worked as a surveyor for the Corp of Engineers in the construction of an Army air base in Chicopee Falls, Mass. The summer before last he worked for the Carnegie, Illinois Steel Corporation as a third helper on a basic open hearth furnace making alloy steels.

In January he will go to work for General Electric as a research metallurgist in Schenectady, N. S.

Fred considers New England "the land of white mountains, maple syrup, and Republicans all in one days radius of the New York Times. As he puts it he is a 'rushin' Russian, who generally looks like one, with no Communistic background in spite of pink (subversive) hopes for a White Christmas for the Seniors."

His favorite recreations are mountain climbing, mathematics, psycho-analysis, and writing.

Manganese Alloy For Scarce Metals

Eighteen tons of scarce metals will be saved in the manufacture of General Electric war products this year. Thanks to a new manganese alloy.

The new alloy will free 10 tons of nickel, seven tons of chromium and almost one ton of tin for other war uses. All three metals are listed by the War Production Board as "inadequate for war and most essential uses" while manganese, the substitution of which makes the saving possible, is available in adequate quantities.

The new alloy replaces a formula which called for 18 percent chromium, eight percent nickel and the remainder iron. Either alloy requires a covering to prevent rust, and for the tin coating previously used, a lead coating has been substituted. Adequate supplies of lead are available.

According to J. Q. Adams, steel specialist in the company's Schenectady works laboratory, the new formula provides a much stronger alloy.

"This alloy can therefore be expected to remain in general use when the war ends and chromium, nickel and tin again will be in common use," he said.

Bars, rods and plates made of the new alloy are used in motor generators for submarines, control equipment for planes and tanks and in switchgear equipment and motors for war industry generally. Wire made of the alloy has equally wide application, chiefly in electric locomotives. In this application the wire is wound tightly around direct-current motors and soldered and must be replaced every few weeks as a safety factor.

SLEDGE, JR.

Upchurch: "Say, do you know a fellow down your way with one leg named Wilson?"

Cornell (doubtfully): "Well, now, I'm not sure. What's the name of the other leg?"

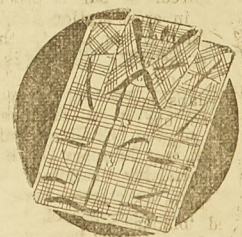
We have gigolos because the female of the species is more cuddly than the male.

COTTON FLANNEL
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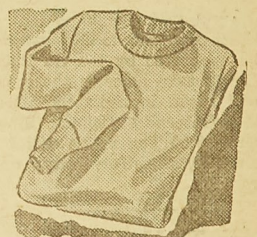


MENS' FLEECE LINED
SWEAT SHIRTS

89¢

GREY COLOR—CREW NECK

ALL SIZES 36 TO 46



CARPS INC.

Piezoelectric Quartz Crystals For Radio Frequency Control

(By Ed Patterson.)

Today, quartz is playing a very important part in the war effort. This part, though of prime importance, is little known to most people. Its application may be found in the field of piezoelectricity.

If a mechanical pressure is applied to two opposite faces of a quartz crystal, electrical vibrations are set up within the crystal; conversely, if an electrical pressure is applied, mechanical vibrations are produced. Thus is defined the phenomena known as piezoelectricity.

For the most part, the raw quartz or 'mother' as it is called is obtained from Brazil, though some Colorado quartz is used. This seems strange in view of fact that silicon dioxide is one of the most common of minerals. However, as shall be pointed out only the purest of quartz can be used, and this is not obtainable to any extent except from Brazil.

When the total price of raw quartz is taken into consideration, according to Aircraft Accessories Corporation of Kansas City, may run as high as fifteen dollars a pound, including importation.

First the raw quartz is examined for flaws of an internal nature such as bubbles and veins of intrained air or other gases, which were trapped within the crystal structure during its formation. This is done by careful and meticulous examination by passing through a beam of light produced by means of the carbon arc. However no matter how perfect the quartz may seem from this standpoint, if at the same time there is not sufficient evidence as to the location of certain crystal faces, as is frequently the case, the mother quartz must be oriented before cutting by means of polarized light. For this examination it must be immersed in cedar oil or some other fluid having the same index of refraction as quartz. The bulk quartz is then turned in various positions until the various colors which are observable blend into a monochromatic beam. The position is marked and shows the position of the C or principle axis, parallel to the polarized beam.

The large pieces are next placed in small boxes, with the C axis parallel to the bottom of the box, and are fixed in this position by utilization of hot pitch, which is poured around the quartz. After the pitch has hardened the raw quartz is ready for the diamond saw.

The making of copper blades, the cutting edge of which contains enclosed diamond particles, which becomes an art in itself will be passed by for the more important facts. The quartz is oriented upon a very delicate saw base so that a cut perpendicular to the C Axis will be made when the rapidly revolving saw blades chew through the quartz. These so called 'sections' are cut at uniform distances along the quartz, the distances being regulated by using a calibrated worm screw which causes the base to move sideways.

The cut sections are removed from the saw and from the pitch, and smoothed down on a rapidly rotating disk, known as a 'hand

lap'. The grinding media for this process of smoothing is carborundum mixed with water. The smoothing of the sections is a rough process and the abrasive used is generally pretty rough, being of 90 to 180 mesh—that is to say, the smallest particles are capable of passing through a sieve having 90 to 180 openings per linear inch.

From the hand laps the next step is to catalog the sections with respect to the raw piece from which it is obtained, which has been given a definite number for the purpose of checking up on the quartz as it passes through the several stages of its development.

After the sections have been assigned section numbers, they are placed in trays protected by coatings of wax, which are then introduced into concentrated solutions of hydrofluoric acid, contained in an acid chamber. The worker performing this operation must wear heavy rubber gloves at all times, and have immediate access to ammonium hydroxide solutions. The sections are allowed to etch for approximately an hour, after which they are removed and examined for 'twinning.' Twins are a result of two crystals growing into each other, or of one crystal reversing its direction and growing back into itself. Since twinning disturbs the regular pattern of crystal structure, it is needless to say that the quartz for oscillatory purposes becomes worthless. Twined portions are soft with respect to the other portions of the quartz and therefore show up plainly as a result of etching.

If the section is found to be free from twinning it is again placed on a block of flat wood, this time glued to the block by means of a special substance known as thermoplastic; which is hardened, fixing the quartz section by means of heating. The sections are oriented, and cuts are made using the diamond saw, at various angles to one of the A axes, of which there are three perpendicular to the C, the angle depending upon the type of bar cut desired. A bar is practically square in cross-section and is cut in a similar manner to that of cutting sections. The bars are removed and squared on the same hand laps as were used for the sections, but this time a slightly finer grade of abrasive is used.

Again the process of fixation and cutting is performed—this time upon the bars, and the so called 'blanks,' from which the crystals proper are obtained, are the result.

The blanks are squared in blocks of fifty, this time using moderately fine abrasive. The result of squaring upon the

block of wax held blanks, is uniformly of cross-sectional dimension on the order of 1-1000 inch.

The squared blanks are removed from each other by heating carefully upon a hot plate. The wax adhering to their surfaces is removed with a solution of xylol which dissolves the wax.

The blanks are now adjusted in 'mechanical or automatic laps,' which are similar to the hand laps with the exception that their movement is of a definite nature, and are placed in holes in a metal plate, each of which is made to fit the crystal; the crystals are ground down to a definite thickness between two milled metal plates using a fine grade of carborundum. The blanks are removed and found to be parallel within 1-20,000 of an inch. These blanks are put into other automatic laps, in which they are polished with corundum or aluminum oxide.

From the fine laps they are sent to the x-ray where it is determined whether or not the angle of cut was held during the lapping. If the internal planes of atoms have the proper relationship to the surface faces of the crystal, the crystal blank is sent to the crystal finisher to be finished.

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Alpha Psi Omega To Resume Rehearsals Soon

The cast of "Orphan Nell," Alpha Psi Omega's forthcoming production, has suspended practice for the past week in order to recuperate from the trials and hardships of mid-semester. Even a thespian must take time out. Practice will be resumed next week, at which time the rough edges of the play will be rounded off for final presentation.

Before leaving the subject of Alpha Psi Omega it is only fair that something be said of that group of unsung individuals, the men behind the scenes.

This year all publicity and advertising for the presentation is being handled by those two veteran performers, namely D. A. Greco and "Moderate" Lohmann.

The grandstand quarterbacks are Paul Shatto and Mr. Weber of the English and Chemistry departments. This same combination worked together to give the Miners "The Wary Ape" and "The Widow's Plight." Handling the lights, properties and stage will be a trio who certainly do not want for experience. They are Bill Hennie, John Krall, and Jean Rorat.

Bob Balin is in charge of scenery this year and the Miners are promised a real surprise in this respect. The stupendousness of the venture will rival a Cecil B. DeMille production. Upon the shoulders of the cast and the aforementioned men rest this year's success or failure for "Orphan Nell." Past experience and reputations guarantee the play to be a "sure thing."

WIDE AWAKE

Missionary's Wife — Dear, I had a most frightful dream last night. I dreamed a man was staring at me, open-mouthed.

Missionary—Hum, what's so frightful about that?

Wife—He was a cannibal!

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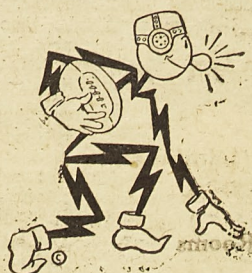
1942

HOME COME

TWO CAPTAINS



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Compliments ROLLAMO and UPTOWN THEATRES

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INDIANS SATURDAY

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costs with



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Any Difference
if you're
an '06 or '46
You're still
Welcome

SNO-WITE
GRILL

Coaching Staff
Head Coach: Gale Bullman, (W. V. Wesleyan '25 - Washington '29)
Ass't Coach: Dwight Hafeli (Washington '37)

MISSOURI MINES ROSTER

Boetjer, Jack	Hannibal, Mo	H. B.	22	Leone, Anton	Benld, Mo.	T.	64
Bolitho, Wayne	Ely, Minn.	H. B.	30	Mazzoni, Mike	St. Louis, Mo.	G.	78
Buckley, Tom	St. Louis, Mo.	G.	66	Meyer, Warren	Oak Park, Ill.	F. B.	74
Carafoll, Gil	St. Louis, Mo.	F. B.	50	Mitchell, Charles	St. Louis, Mo.	H. B.	31
Catanzaro, Mike	St. Louis, Mo.	Q. B.	43	Miller, Jim	St. Louis, Mo.	H. B.	65
Colleran, Pete	Long Island	T.	62	Miller, Ed	St. Louis, Mo.	C.	53
Counts, Charles	St. Louis, Mo.	E.	52	Moore, John	St. Louis, Mo.	E.	42
Davis, Carl	St. Louis, Mo.	T.	54	McGrath, Jim	St. Louis, Mo.	F. B.	57
Dick, Al	Paris, Tenn.	H. B.	20	Morquart, Elden	Bloomington, Ill.	H. B.	41
Dameron, Clif	St. Louis, Mo.	E.	29	Nohovic, Charles	St. Louis, Mo.	E.	34
Engelhart, Marvin	Anna, Ill.	T.	58	Perkins, Ira	Joplin, Mo.	E.	55
Felbaum, Dave	Sportswood, N. J.	G.	49	Portmann, Martin	St. Louis, Mo.	C.	51
Fris, Ed	Orient, Ill.	H. B.	24	Radeliffe, Keath	St. Louis, Mo.	Q. B.	45
Fulghum, Gale	Independence, Mo.	G.	21	Reader, Gorden	St. Louis, Mo.	T.	60
Guiney, Gene	St. Louis, Mo.	E.	76	Shank, Earl	St. Louis, Mo.	G.	46
Glover, Jim	St. Louis, Mo.	H. B.	77	Seabaugh, Ray	Perryville, Mo.	T.	61
Haleski, Joe	Oaklyn, N. J.	G.	56	Stover, Jim	Miami, Okla.	H. B.	25
Hartmann, Bob	St. Louis, Mo.	T.	44	Sueme, Joe	St. Louis, Mo.	G.	38
Hazelett, John	St. Louis, Mo.	E.	40	Wolf, Gene	St. Louis, Mo.	T.	37
Hoby, Theo	Hillside, N. J.	T.	63	Wood, Neau	St. Louis, Mo.	T.	59
Kaizer, Charles	St. Louis, Mo.	H. B.	32	Wight, Roulin	Downers Grove, E.	Ill.	48
Kane, Earl	St. Louis, Mo.	G.	39				
Kiburtz, F. M. (C)	St. Louis, Mo.	C.	23				
Kratz, Jerrald	Carrolton, Mo.	E.	69	Telthorst, Harold	St. Louis, Mo.	C.	36

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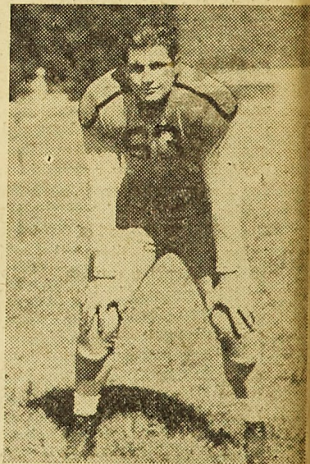
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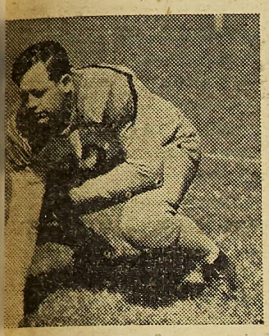


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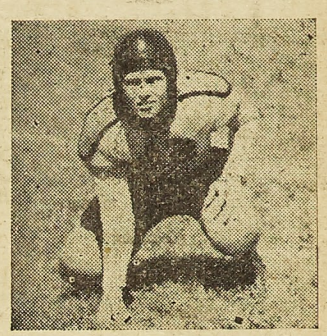
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Miners	7	St. Louis U.	14
Miners	13	Maryville	22
Miners	32	Warrensburg	7
Miners	53	Fort Wood	0
Miners	13	Springfield	0
Miners	?	Cape Girardeau	?

**M. S. M. Meets Washington University at St.
Louis, Saturday, Nov. 21 1942**

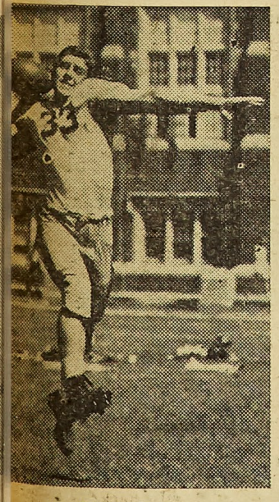
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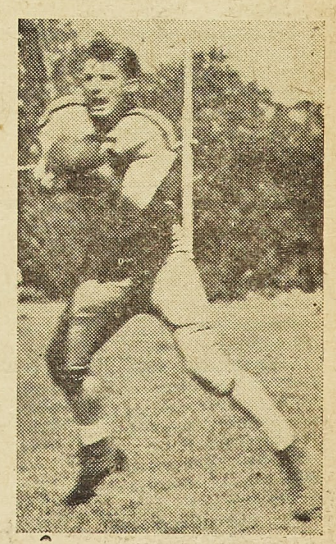
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Cream. We like
to see Miners'
Class of '46 or '06.



I. Perkins—End

TUCKER'S DAIRY

Refrigerated Cans Transport Blood

A refrigerated container, originally developed for transporting small quantities of perishable foods that require temperature protection in transit, is now being used to carry blood from Red Cross collecting centers to laboratories where it is processed for shipment to America's armed forces overseas.

Designed by Major Elihu Church, built by refrigeration experts of the General Electric company and transported by the Railway Express Agency, the Church containers service the nation's 17 blood centers where 50,000 contributions a week are being made by blood donors. To handle the increasing donations of blood, the War Production Board has granted priorities for 200 more containers, which are now being built by General Electric.

The Church containers look like large trunks. Made of galvanized steel and mounted on casters so they may be moved easily, they have an insulation thickness of four inches and a capacity of ten cubic feet. A bunker, which may be loaded either with 100 pounds of dry ice or with 90 pounds of water ice, provides low temperatures required in refrigeration.

Manufacture of the containers was begun several years ago and they have been adopted by Railway Express as standard equipment for the rapid transit of perishables requiring maintenance of low temperatures in transit, either below zero or just above the freezing point. Thus these containers can carry frozen foods, ice cream, serums and vaccines, with the use of dry ice, and, with water ice, sea-food, meat and perishable delicacies.

With the advent of the war the transportation of blood became the major use of the containers. The Red Cross was faced with the problem of shipping large quantities of blood from its many collection centers to one of the eight laboratories where processing is conducted. The shipment must reach the laboratories within 24 hours and be maintained during transit at a uniform temperature close to 40 degrees Fahrenheit, or the blood will deteriorate and become useless. Since Pearl Harbor the number of civilians volunteering their blood for banks now being built up for use by the armed forces and in case of air-raid attack has increased to the point where additional containers are needed.

Music Club To Have Program Sun.

The Music club shall meet this Sunday at 7:30 in Norwood Hall. Featured on the program will be Brahms' Symphony No. 4 in E Minor. Anyone who is not familiar with Brahms' magnificent melodies combined with his music is due for a very pleasant introduction. Among others, the program will include a selection from 'Rimsky-Korsakow's "Ivan the Terrible," and the exquisite gem known as Prokofieff's "Classical Symphony."

If the music is to your liking, please attend. Everybody is welcome.

After the blood is taken from a person's arm it is placed in pint bottles and kept in a refrigerator, the temperature of which ranges from 35 to 40 degrees Fahrenheit. Meanwhile, at the blood center Church containers are being precooled during the day by blocks of dry ice and an inner bunker of water ice to a temperature of 20 degrees below zero. At a set time in the evening, depending on train schedules to the laboratory to which the blood is to be delivered, an express truck arrives at the collection center.

A container has compartment which is first placed in an unbleached muslin bag as soon as the collection is taken. The bottles are stacked in the containers just in time or the truck to pick them up and speed them to the railroad station for loading on to a fast train. At the end of the trip another truck delivers the containers to a laboratory. There the liquid red blood is transformed, by operations of centrifugal spinning, freezing and dehydrating, into a crystalline substance which preserves itself indefinitely, without the necessity of refrigeration.

DEAN EXPLAINS

(Continued from Page 1) accelerated program. The present calendar, as adopted by the Board of Curators upon the recommendation of the faculty, has been scrutinized time and again. The one finally adopted was thought to be the best possible calendar, one which could not be criticized either by accrediting agencies, selective service boards, or military authorities. Having adopted the calendar the faculty thought it best to adhere to it.

Curtis L. Wilson
Dean

Army, Navy Need Student Fliers

Under a new announcement with completely modified requirements, the Civil Service Commission is seeking student and Junior instructors for the Army Air Forces Technical Schools and Navy Aviation Service Schools. Student instructors receive \$1,620 a year; Junior instructors, \$2,000 a year.

Student instructors will be given training in radio operating, engineering, airplane mechanics, or shop work for a period of from three to six months. Those who successfully complete such training will be promoted to Junior instructors and assigned to an appropriate school. Student instructors can qualify through the possession of a Civil Aeronautics Administration ground instructor's certificate, airplane mechanic's or airplane engine mechanic's certificate; through one year's progressive technical experience as aircraft mechanic, aircraft or automobile engine mechanic, sheet metal worker, welder, machinist, photographer, camera repairman, radio operator, radio engines, or radio maintenance and repairman; through completion of technical courses (six months) in a radio school or a war training course in radio work; or through the possession of a commercial or amateur radio operator's license. Additional training or experience is necessary for the junior instructor positions.

No written test is required. Applicants' qualifications will be judged from their record of training or experience. Applicants must have reached their 20th birthday, but there is no maximum age limit. Qualified persons are urged to file their applications at once with the Secretary, Board of Civil Service Examiners at Chanute Field, Rantoul, Illinois. It is useless for persons subject to any early draft call to apply. Applications will be accepted until the needs of the service have been met. The forms for applying may be obtained at any first or second-class post office or from the Civil Service Commission, Washington D. C.

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Rate Drug Co.

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WINTER CARNIVAL
Continued From Page 1
attending Gulf Park College, Gulfport, Miss.

When told of her election, she was very thrilled and happy; but, as she very ably put it, being so far away at present, she would be unable to express her feelings

and happiness until her arrival in Rolla for the Carnival. Miss Katz was elected to her position by the St. Pat's Board.

The greatest disappointment the world is the fellow who expected an electric razor for his birthday but his wife presented him with a little shaver.

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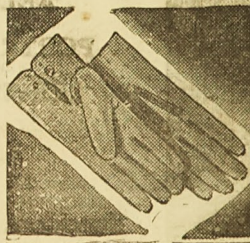
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Wool
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Miners Seek 1st Homecoming Win In Tilt With Cape Today

Miners Can Tie for MIAA Title

The Miners engage the Cape Girardeau Indians this afternoon in their final home contest of the season. This Homecoming battle will entitle the winner to a first place tie in the MIAA Conference. The game is scheduled to be under way at 2:15 on the football gridiron.

Coach Stuber of the Southeast Missouri squad proudly proclaims this year's team as one of the best he has seen at Cape in recent years. He is truly justified in his belief, as the Indians have been playing exceptional ball this season. Thus far, they have chalked up five victories to two losses. Their only conference loss was to the Maryville Teachers who were fortunate to beat them, 7 to 6.

However, Coach Bullman is optimistic about the contest. The Miners have been improving every game, winning their last three contests in a true "Miner" fashion. Last week they defeated Springfield Teachers 13 to 0, thereby removing them from first place in the conference. By defeating Cape today, they will not only eliminate them from the race, but they will obtain first place for the second consecutive year.

Bullman has been putting his charges through the usual routine of the past week, with special attention devoted to his passing attack. Halfback Al Dick, the one who threw the two touchdown passes last week against Springfield, will again be leading the attack. On the receiving end will be the same pair, Irwin Perkins and John Moore. This combination should be in full swing today, and will undoubtedly be hard to stop.

The Indian offensive is built around a big and heavy line, together with an exceptionally fast backfield. In the line, they have a 210 pound center, who takes care of most of the tackles. Don Campbell, captain of the Teachers, plays left guard, and is another who will give the Miners his share of trouble. John Griffith, freshman this year, is one of their fastest men, and has gained a reputation for getting into the end and then galloping away from any backfield opposition. He plays the right halfback position and will be the boy the Miners will have to watch.

The Miners are expected to be in full strength today with the exception of Theo Hoby. Hoby received a leg injury in the second game of the season and has been unable to return to the lineup. It is doubtful whether he will be able to play for the remainder of the season. It is expected that Bullman will start the same team as in his week that started against Springfield last week. Captain Kiburtz will be at the right position. Although "Kib" is relatively small for the center position, he is one of the Miner's hardest tacklers. At the guards will be Mike Mazzoni and Killer Kane, two men who have been playing good ball all season. Neal Woods and Anton Leone, two boys who hit the scales at about 160 pounds, will take care of the tackle positions. John Moore and Ira Perkins will be on the



Keith Radcliffe—Quarterback

flanks. In the backfield will be Al Dick, Gil Carafail, Jim Glover, and Jim Stover. These men have been doing an excellent job of carrying the mail for the Miners all season.

Amphibian Troops New Army Branch

The honor of being the newest outfit in the Army goes to an Engineer Amphibian Command. The Amphibian Engineer's task will be to ferry troops from ship to shore and, in the case of a Commando type raid, from the beachhead back to the ships. They will undoubtedly be among the first to come to grips with the enemy when the second front in Europe is opened.

The Amphibian Engineers are organized into boat regiments, which will operate the command's boats during operations, and maintenance regiments, which will be charged with the four echelons of maintenance for the unit's equipment.

The Amphibian Command's equipment includes swift motor boats, and "Command boats," which are described only as high speed, seaworthy craft and are heavily armed and armored and especially suited for aiding other sea craft during an engagement. The maintenance regiments are equipped with floating docks, barges, etc., all of which are heavily armed.

The training program includes nautical terminology, meteorology, chart reading, navigation, and piloting.

Marine engineers, boatbuilders, motorboat and sailboat operators, and yard superintendents are among those eligible for direct commissions. They will be commissioned in accordance with their age and experience.

Over forty different types of specialists are wanted for non-coms, and those of special qualifications are promised rapid advancement and in some cases, commissions. The list of specialists includes carburetor specialists, cooks, crane operators, deckhands, draftsmen, electricians, fishermen, lithographers, oystermen, plumbers, radio operators, riggers, sheet metal workers, ship's carpenters, signalmen, surveyors, yachtsmen, welders, and many others.

Around The MIAA

The Miners and their MIAA competition this afternoon when they face Coach Abe Stuber's strong squad from Cape Girardeau, in what will be a crucial test in the Miners' drive for their second consecutive Conference title.

By virtue of Maryville's surprise win over the Indians and the Miners beating STC, the Miners climbed back into first place with Maryville in the standings. Maryville has Warrensburg as its only foe left to play, and should gain an easy victory over the weak Mules' team, who to date have failed to register a victory in Conference competition. The Miners on the other hand are running up against a strong and capable team, possessing plenty of reserve strength along the line.

The team from Southeast Missouri has displayed brilliant form in their games to date, their most notable victories coming against the Missouri "B" team 14 to 2, and over the Culver Stockton gridders 12 to 0.

It is notable that the Miners lost to a stronger and more experienced 33 to 19.

The Indians will use a smooth combination of running and passing plays against the Miners' unique T-formation this afternoon.

Observers around the MIAA feel that the team that takes the advantage of breaks will be the victor in this contest.

Rounding out the second half of the activity in the MIAA this week end the Warrensburg Mules met the former league leading Springfield Bears. The Bears have had a larger degree of success in their games this season and should roll up another Conference victory over the winless teachers from Warrensburg. There is little doubt in the outcome for Springfield as far as the observers around the MIAA go, for they point out the fact that the Bears possess a stronger all-around team than the Mules and the STC offensive paced by the veteran Fullback, Dean George will prove too much for the weak Warrensburg defense.

This week Maryville remains idle in the MIAA. Next week the Bears from Springfield meet the Indians from Cape to bring down the curtain on Conference play this season.

If the Miners beat the Indians this afternoon, and Cape beats Springfield next week-end, the Miners are at least assured of a tie for the MIAA title. The Miners' title hopes hinge solely on the outcome of today's game.



John Moore—End

Ten Seniors Will Play Last MIAA Game Today

This afternoon as the football team steps onto the playing field to play in their annual Homecoming game ten Seniors will be making their final appearance wearing the Miners' colors. Ten Seniors have given their all—sacrificing pleasures—so that the School of Mines could gain a prominent place in the MIAA Conference.

It is to these men, the school owes a vote of undying thanks and an extreme showing of gratitude for their splendid and unselfish efforts in carrying on the Miners' traditions in football these past years.

"Words are not enough, we haven't got enough, to quite define a MINER." How remarkably true. There aren't enough words to describe the fellowship, the sportsmanship, and the exceptional abilities of these "Fighting" Miners who have served their team faithfully throughout the past four years at MSM.

This afternoon as these loyal sons of MSM play their last game on their home field, we, the entire student body, salute these true Miners—

CAPTAIN MEREDITH KIBURTZ—Ending four years of varsity service at center, stands as one of the greatest centers, both offensively and defensively ever to wear the Miners' colors. "Aib", as he is known to his friends, is regarded as one of the best line backers in the Conference. His excellent record on the football field has endeared him to the students and coaches at MSM.

KEITH RADCLIFFE—A four year letterman who was the brains of the Miner team this year. Keith has climbed a long way up the football ladder at MSM through his ability as a kicker. His kicking has won for him the admiration and praise of his teammates and opponents alike. His hard work and amiable nature gained him an honored place in the Miner lineup.

THEO HOBBS—Theo is the big 205 pound lad hailing from Hillside, New Jersey. He was lost to the team most of the season due to an injury he received at the beginning of the season. This ends his fourth year as a varsity letterman at tackle, in which time he has been rated as one of the best weak-side tackles in the Conference. A real Miner in spirit and actions.

JIM GLOVER—An all-around back hailing from St. Louis,



Jack Boetjer—Halfback

completes his fourth year of service with the Miner team. Although Jim has not been a regular in the Miner backfield, his ability as a triple threat back has established his name in football circles. Equally adept at passing, running, or kicking, the Miners have profited greatly by his exceptional talents.

JOHN MAZZONI—Another St. Louis lad completing four years of football with the Miners. John broke into the regular lineup last year.

(Continued on Page 8)

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Serial and Cartoon
Adults 20c Plus Tax

SUN. MON. TUES.
Continuous Show Sunday
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Ann Sheridan, Dennis Morgan in
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Ann Dvorak, Ben Lyon in
"THIS WAS PARIS"
Also News
Adults 20c Plus Tax



SCOTT'S - The Miner's Co-op and Book Exchange

Owned, controlled and operated by former students of M. S. M.

53 years at 8th & Pine

WELCOME MINERS

SENIOR FOOTBALL (Continued from Page 7.)

lar lineup this year and has made for himself a fine record both on offense and defense at the guard position. Always a hard worker, John's determination and his earnestness to play, gained him a place on the Miner varsity.

IRA PERKINS—A lad from Joplin who won a place on the varsity this year by his hard work. Ira won his end position completely away from last years reserves who were picked for the job. Playing at end, he has turned in an excellent record on both offense and defense despite his lack of weight. Truly a "Fightin' Miner" from start to finish.

JACK BOETJER—Jack transferred to MSM in his Junior year and as a result saw very little action last year. This year he was given his chance to make good when Jim Miller was hurt. Jack made such a good showing that he earned himself a starting berth in the lineup. His exceptional broken and open field running has made him a stand-out in the Miner backfield.

MIKE CATANZARO — Mike has been a faithful member of the Miner team for four years, earning his letter in two of them. Playing at quarterback he has been Keith Radcliff's main understudy whenever he is in the game for the Miners. He shows soundness of judgment in running the team. He is good insurance to have around for he

can play as hard on defense as he does on offense.

JOE SUEME—Joe has been another one of the faithful Miners who have turned in four years of service as a member of the team. A good lineman, Joe was always ready to bolster the Miners defense with his hard playing.

ED FRIS—Ed came out for football this season to make a good showing, and he has succeeded in doing just that. Full of fight and drive, he has displayed a typical Miner spirit in his football, which made him a well liked member of the team.

QUARTZ CRYSTALS

(Continued from Page 3)

The finished crystal which will oscillate at a definite vibration under mechanical pressure, is ground until a definite frequency has been reached. As the thickness of the crystal becomes less, the frequency becomes higher, and the final ground frequency is checked against a so-called 'frequency meter', which determines it to the tenth of a kilocycle.

The finished crystal is placed in metal holders and tested for strength of output and stability of frequency, and if found to be satisfactory is sent out to become part of the receiving or transmitting equipment of an airplane, a tank, a ship, or a ground station.

It is by means of piezoelectric quartz crystals that a radio sending station maintains a definite wave length. Quartz crystals therefor automatically become the "Generals of Communication."

And a meeting a while back inspired this poem:

There's the wonderful love of a beautiful maid,

And the love of a staunch, true man.

And the love of a baby that's unafraid,

All have existed since time began.

But the most wonderful love—the love of loves,

Even greater than that of a mother,

Is the tenderest, infinite, passionate love

Of one dead drunk for another.

"Oscar" To Match Women's Clothing

Through the work of such scientists as Virginia Granville, assistant color technologist at the Interchemical Corporation in New York City, milady of 1950 will be sure that her shoes match her suit, and that they will stay matched under any lighting condition. And she will have learned to say to the sales department, "Yes they look like a match, but I want to be sure they match spectrophotometrically."

Mrs. Granville is not mending up fabrics and leathers now. Her laboratory is largely concerned with color work for defense purposes. After the war, she says all they have learned will be useful for many pleasant peaceful purposes, including women's clothes.

She and Mr. Granville directs the laboratory, art using an electronic machine, called a photoelectric spectrophotometer in their work. Produced by General Electric engineers, the electronic machine sees more accurately than any human eye, utilizing electrons to measure color wavelengths, and then recording its findings is the shape of a curve on a piece of graph paper. Using this curve rather than his eyes as a guide a scientist can match colors exactly.

Mrs. Granville who calls the electronic machine "Oscar" explains that it already is being used for cosmetics. "You can see how it would help match up lipstick and nail polish and how it keeps different batches of powder the same shade." She is looking forward to the day when she can tell the house painters just what color curve number she wants to use, for then she will be sure of the right shade on the living room walls.

Glee Club To Sing At Interfrat Sing

The Glee Club has had three practices this week so far, and will have another one today. Meetings were held on Tuesday and Thursday evenings and also on Friday evening. There will be a special practice today, Saturday, at 12:30 p. m. All members note. The Glee Club has been asked to sing for the Inter-Fraternity sing tonight; it will sing the school song and also a special number, not yet determined, during the last part of the program.

The Glee Club is to lead in the singing of the school song at the football game this afternoon. All members of the Glee Club are asked to be on hand 10 minutes before the start of the game, in order that they might all sit in one section.

The session Thursday was attended by the largest crowd of the year, and George Tuer, the organization's president, expressed deep satisfaction at the results obtained. The music which had been ordered from Fred Waring for quite some time has finally

arrived; practice was begun on his arrangement of "Dream of Love" (Liebestraum), by Franz Liszt. A four-part male chorus arrangement of the school song (arranged by Harold Flood) is now available, and enough copies have been printed for the Glee Club. At some future date the Glee Club will give their rendition of this before the students.

Many a man is doing a stretch because he tried to erase a debt with a rubber check.

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Cards with your name

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We have quality merchandise for your pocketbook

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MINERS

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Where Friends Meet

"quart of champagne, says I has launched many a gal on the Sea of Matrimony."

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SATURDAY

"TISH"

With

Marjorie Main, Zazu Pitts, Aline MacMahon, Lee Bowman and Guy Kibbee

Laugh and be Merry—That's the Theme of This Show

Plus

The Whirlwind Story of That Bad Man of the West "TRIGGER BILL"

In

"THE APACHE TRAIL"

With

William Lundigan, Lloyd Nolan and Donna Reed

SUNDAY—MONDAY

Sunday Continuous from 1 P. M.

Cary Grant, Jean Arthur and Ronald Colman

In

"THE TALK OF THE TOWN"

TUESDAY—WEDNESDAY

Shows 7 and 9 P. M.

Jeanette MacDonald, Robert Young and Ethel Waters

In

"CAIRO"

Rollamo

SATURDAY

Continuous From 1 P. M.

Admission 10c and 22c

Robert Preston

In

"PACIFIC BLACKOUT"

and

Charles Sterrett

In

"RIDERS OF THE BADLANDS"

SATURDAY MIDNIGHT SHOW

Starts at 11:30 P. M.

Admission 10c and 22c

Constance Bennett and Broderick Crawford

In

"SIN TOWN"

SUNDAY—MONDAY

Sunday Matinees 1 and 3 P. M.

Night Shows 7 and 9 P. M.

Johnny Weissmuller and Maureen O'Sullivan

In

"TARZAN'S NEW YORK ADVENTURE"

TUESDAY—WEDNESDAY

Admission 10c and 15c

Edw. G. Robinson

In

"DISPATCH FROM REUTERS"

and

Marjorie Rambeau, Jon Hall

Jane Wyman and Ronald Reagan

In

"TUGBOAT ANNIE SAILS AGAIN"