



01 Nov 1941

The Missouri Miner, November 01, 1941

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TO OUR PARENTS THE MISSOURI MINER

Missouri School of Mines & Metallurgy

VOLUME 28

ROLLA, MO. SATURDAY, NOVEMBER 1, 1941

NUMBER 14

Blue Key Will Initiate Eleven

Informal initiation of the eleven pledges of Blue Key, National Honor Fraternity, will take place Monday evening, November 3. Those to be initiated are Kent Comann, Raymond Kasten, Melvin Flint, Ken Vaughan, Henry Kuruz, Joe Berndt, Don Coolidge, Bob Eck, Fred Radavich, Enos Key, and Rene Rassmussen. Formal initiation will take place on Sunday evening, November 9.

As their role in preparation for the celebration of Parents' Day, Blue Key members prepared the guide maps for the purpose of assisting parents while visiting the campus, and they did the external decorating at the Pennant.

Cowgill Blair Is Principal Speaker At Banquet

A feature of Parents' Day will be the Parent-Son Banquet, to be held at the Pennant Hotel at 6:00 tonight. The principal speaker will be Mr. Cowgill Blair, of Joplin who is a member of the Board of Curators and the Executive Committee. George Bradshaw, president of the Student Council, will speak for the sons. A talk will then be given by Mr. H. J. Cross of St. Louis, who is the president of the Association for the Advancement of Missouri school of Mines. It is estimated that four hundred and fifty will attend.

Tickets for the banquet may be purchased in Parker Hall, where the registration will take place. They will be one dollar per plate.

"M" Club Pledges Eleven Lettermen

The "M" Club, which is the organization of the athletes of MSM who have made letters in conference sports, have announced their pledges' names.

These are the fellows who have made the traditional "M" here at the school in the following sports football, track, basketball, tennis, and golf. The boys are now regular members but they will not undergo the initiation until next spring.

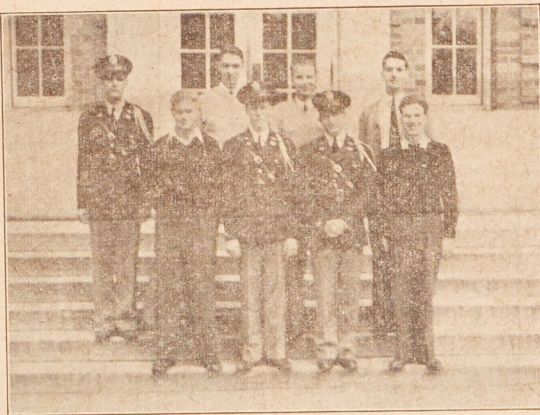
These men are asked to attend the next meeting of the "M."

Charlie Mitchell, Ira Perkins, Herb Kabish, Bob Kendall, Harold Haas, Joe Bush, Norman Batterman, Bill Brown, Mooney, Aschmeyer, Westwater, Jack Nevin.

HERE IS TODAY'S SCHEDULE

Registration	Parker Hall	8:00 a. m.
Technical Motion Pictures—Auditorium		8-12:30
Engineer's Day Exhibits—Campus		9 a. m.-12 p. m.
Parents lunch with sons		12:30-1:45
Miners vs. Springfield Teachers		2:00 p. m.
Meeting of the Assn. for Advancement of Missouri School of Mines	Parker Hall	5 p. m.
Parents' Day Banquet—Sinclair Pennant		6:00 p. m.
"M" Club Dance—Jackling Gym		9 'till 1

These Men Will Be Informally Initiated Monday



Nine Juniors, who were pledged to Blue Key, National Honor Fraternity, at a Tapping Ceremony on October 17, will be informally initiated on Monday, November 3. Back row, left to right, are Ken Vaughan, Rene Rassmussen, Ray Kasten, and Fred Radavich. Front Row: Don Coolidge, Enos Key, Joe Berndt, and Bob Eck. Henry Kuruz, not shown, was pledged and will be initiated at the same time. Mel Flint and Kent Comann who were pledged last year will also be initiated.

Pictures Showing In Auditorium All Morning

Motion pictures will be shown in Parker Hall Saturday morning from 8 to 12:30 for the entertainment of parents and guests. The pictures listed below are intended to depict some of the industries for which our graduates are qualified.

- (1) Lead Mining in Southeast, Mo.
- (2) Modern Aladdin's Lamp.
- (3) Means of Anti-Mechanized Defense.
- (4) A New World through Chemistry.
- (5) Steel-Man's Servant.
- (6) Pennsylvania Turnpike.
- (7) Manufacture of Plate Glass.
- (8) Manufacture of G. E. Mazda Lamps.
- (9) Manufacture and Use of Vacuum Tubes.

See Pages 4 and 5 For a Summary of Engineer Exhibits

The south bleachers on Jackling Field will be reserved today for Springfield rooters.

In behalf of the student body the MINER would like to thank every parent who is attending Parents'-Engineers' Day this year. Your participation in the program is the factor that determines the success of the event, and we hope you like it and plan to visit us again next year.

We also want to give the committees a word of praise for the commendable work they have done in planning the day. It is a job of no small proportion.

Lastly, we are dedicating this issue of the MINER to the parents in order to do a small part toward making Parent's Day a bigger and better event.

Full Program Is Ready For Parents And Guests

Here Are The Locations Of The Various Exhibits

The buildings, class rooms, and laboratories of the school are open to parents and visitors. Considerable effort by students and faculty has been made to provide engineering exhibits and equipment. These are located in eleven buildings; namely:

- (1) Ore Dressing and Metallurgy Building contains the department of Metallurgy. The Highway Patrol's exhibit will also be in this building.
- (2) Norwood Hall contains Physics, Electrical Engineering, Geology, English, and Drawing.
- (3) The Chemical Engineering Building and Chemical Hall contains only Chem. Engineering and Chemistry. A special display will be exhibited by Alpha Chi Sigma, 11:00 to 11:30.
- (4) The Rolla Building is the home of the Mo. Bureau of Geology and Mines, Mo. Geological Survey and a division of the Water Resources Branch of the U. S. Geological Survey.
- (5) The Power Plant Building contains the school power plant and the power laboratories of the Mechanical Engineering Dept.
- (6) Harris Hall contains the Civil Engineering, Biology, and Mechanics Depts. This includes the Soil Mechanics Lab., Hydraulics Lab., Mechanics Lab., Bituminous Lab., Highway Materials Lab., and the Topographic Branch of the U. S. Geological Survey.
- (7) Mechanical Hall contains the Mathematics Dept. and Mechanical Dept. The welding, forge and machine shop labs are also located in this building.
- (8) The gymnasium houses the

See EXHIBIT, Page 8

Today the celebration of Parents' Day and Engineers' Day are being combined, and the school is playing host to an expected crowd of some 900 parents, and an unknown number of visitors.

The usual morning classes are being held to give parents an opportunity to observe the various departments in action. This plan also gives the visitors a chance to meet the professors and talk with them concerning the various functions of an engineering school.

The various departments have arranged scientific, engineering and novel exhibits to demonstrate the fields covered by each phase of study represented.

Guides For Tours

Through the cooperation of Blue Key and Alpha Psi Omega honorary fraternities, guides will be provided to conduct tours of the campus and the buildings during the morning. Various points of interest on the campus will be explained, and guests will see the working of the various pieces of machinery and laboratory apparatus.

Engineering Films Showing

From 8 until 12:30 continuous moving pictures will be shown in the auditorium in Parker Hall. These movies will show parents and guests different phases of the various industries for which School of Mines graduates are qualified. The pictures, all on industrial subjects are:

Lead Mining in South-East Missouri; Means of Anti-Mechanized Defense; A New World Through Chemistry; Steel-Man's Servant; Pennsylvania Turn Pike; Manufacturing of Plate Glass; and Study of Milling and Broaching.

Muddy Field Promises Hard Game

The feature of the afternoon, the Miner-Springfield game, promises to be the hardest fought game of the season. Ordinarily a hard contested battle, the sloppy condition of the field will make the game doubly hazardous.

Dean To Toast Parents

Dean Curtis L. Wilson, Dean of the Missouri School of Mines will act as toastmaster at the Parent's Day Banquet at the Sinclair Pennant Hotel at 6:00. Among the speakers of the evening will be Mr. G. V. Bradshaw, Senior President of the Student Council, and Mr. Cowgill Blair, a member of the Board of Curators of the University of Missouri.

THE MISSOURI MINER



The MISSOURI MINER is the official publication of the Students of the Missouri School of Mines and Metallurgy. It is published every Wednesday and Saturday during the school year. Entered as second class matter April 2, 1915, at the Post Office at Rolla, Mo., under the Act of March 3, 1879.

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Contribute To The "Milk Bottle Fund"

The "M" Club members have taken it upon themselves to sponsor the telephone accounts of out-of-town football games, and are hoping to collect enough from the "Milk Bottle Fund" to be able to pay the costs.

Let's all do our share to help the boys finance their project.

What! When! Where!

SATURDAY, NOVEMBER 1

"M" Club Dance 9:00 p. m. Gymnasium
PARENTS-ENGINEERS' DAY

MONDAY, NOVEMBER 3

Military Department 7:30 P. M. 6 Parker Hall

TUESDAY, NOVEMBER 4

Alpha Phi Omega 7:30 P. M. Power Plant Bldg.
Band 7:30 P. M. Auditorium



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NEXT DOOR TO THE
ROLLAMO THEATRE

In The Campus Spotlight

By Neil Stueck

Swinging the beam this week we pick out another Senior Miner—Jack Aurand Witt. At the mention of his name we immediately think of him as Cadet Colonel Witt, Commanding Officer of the M. S. M. Regiment of R. O. T. C.



Jack Witt

However, those of you who know him better remember his unassuming manner, and to use a military term "fire power" in the pinches.

At present Jack hails from a little town up in Northeast Mo. by the name of Elina. Previous to the present we find he has traveled from Toronto, Canada, down through the Midwestern States, and that he graduated from high school at Quincy, Ill.

Even as a freshman way back in 1938 Jack picked his course of Metal Mining and since then has really dug in. He claims no potent pills or special formula, yet his warm engaging manner and many friends belie his success.

Besides being Cadet Colonel, Jack also wields the gavel as President of the S. A. M. E. here on the campus. He holds membership in Tau Beta Pi, the A. I. M. M. E., and Alpha Psi Omega. In the latter upperclassmen will recall his dashing lead in "Peticoat Fever." He has been a member of the Glee Club, the Academy of Science, the Detonators, the Rifle Club and last year served as a member of the Board of Control at the Shamrock Club, of which he is a member. Off the campus he holds the presidency of the Epworth League at the Methodist Church and sings in the choir.

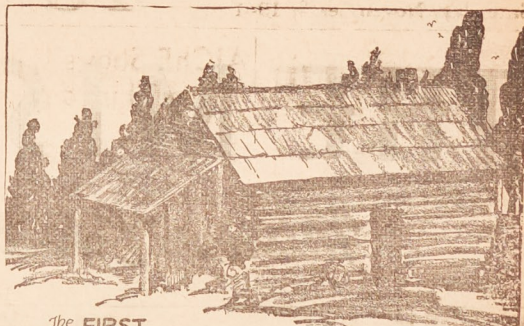
During his three years here Jack has also found time to work. In his freshman year he worked in town for board, and in his 2nd and 3rd year he worked in the Geology Department. This year he is a student assistant in the Mining Department. During his vacation he has worked at construction work, and last year he worked with St. Joseph Lead Co. in southern Missouri for the latter part of the vacation. Earlier the R. O. T. C. training camp had taken him to Fort Leonard Wood for six weeks.

For outside interests and hobbies Jack pulls out a cornet and bugle now and then, or browses into the surrounding country for fossils.

Jack hopes to get into Metal Mining upon graduation or possibly try a little strip mining for coal on his own hook in the event the army doesn't pull him in.

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BERKELEY, Calif.—(ACP)—of California's gigantic atom Difficulties in obtaining steel smashing cyclotron, but engineers have caused three months' delay say it will probably be ready for in construction of the University operation in the fall of 1943.



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INTRAMURAL Sports

By Charlie Mitchell

Weather put a hurdle in the way of a smooth run-off of the Intramural football games this week.

Wednesday both games were called off because of wet grounds, and Thursday's tilts met the same fate when a constant drizzle caused Percy Gill to again set the games off till a later date.

The Senior-Kappa Sigma game on Tuesday was exciting and interesting enough to make up for the rest of the weeks' inactivity. The flashing senior squad lived up to their boasts and played such a bangup game that it may turn out they will be the team to win the championship.

The battle looked like a natural setup for KS when they collected thirteen points in the first three minutes of play. The seniors played a fine game, but were unable to score until the later part of the game when they came back in great style to put over two tallies and Jim Nevin booted two extra points to win the game for the seniors, 14-13. The Nevin twins at the two ends, with Art Rose at center and "Kid" Eisman make a combination that is hard to beat. Nevin and Rose put the ball across into pay dirt in this particular game but "The Kid" was instrumental in all the plays.

The Sigma Pi-Lambda Chi went to Lambda Chi 13-7. Perkins, Wilm, Ferry, and Stovesand shined for Sigma Pi, and it was Stovesand's run-back of a kickoff that accounted for their tally.

Lambda Chi's captain, Jaec Lyons, tossed his team to a victory. However it was Carl and Kurtz who packed the pigskin over for the tallies.

Friday's tilts were also called off so the field could be in shape as well as possible for the Springfield-Miner game.

PIKA will meet the juniors and the frosh will tangle with ALT next Monday.

The Women's Glee club at Syracuse university is in its thirty-second year.

AICHE Shows Movie Thursday

A technicolor movie, "A World Through Chemistry," was shown in the auditorium Thursday night before an assembly of the MSM chapter of the A.I.Ch.E.

The film which was produced in the laboratories and plants of the DuPont De Nemours Co., outlined the development and the manufacture of synthetic products and their importance to modern civilization.

Neoprene, a synthetic rubber, composed of coal, limestone, water, and salt, was shown to be superior to natural rubber in its resistance to the destructive action of oils. Uses for this new compound include gloves, soap dishes, aprons and mats.

The picture described the manufacture of cellulose sponge and the ease with which it is made into any size or shape. The uses of a new liquid repellent substance, Zelan, was also shown. Zelan treated fabrics shed water and can be rinsed free of liquid foods without any resulting stains.

Among other miracles of modern chemistry which were illustrated was Nylon. Nylon is a synthetic product composed of coal, air and water. It is more durable than any yarn made from natural sources, and it finds uses in products as stockings, tooth brushes, cloth, and fish lines.

Another feature of the film was Lucite, a transparent plastic which is only half as heavy as glass, and is practically unbreakable. Its peculiar refracting property was demonstrated by a beam of light which projected along a Lucite rod in a manner similar to the flow of water through a pipe. Furniture and dental lights are now being manufactured from this plastic.

AIEE Shows G. E. and Western Electric Pictures

The American Institute of Electrical Engineers met Friday morning at 11:00 in the auditorium of Parker Hall, where moving pictures pertaining to electrical engineering were shown. General Electric movies on the mass production of Mazda Lamps were shown. Western Electric corporation movies were shown on the mass production and use of vacuum tubes. About fifty stu-

Rollamo Will Take Group Pictures Next Week

Following is a list of the groups that are scheduled to have their pictures taken for the Rollamo next week.

Monday, Nov. 3, 1941:

12:40—Soc. of Ceramic Eng. Parker Hall.

12:50—Amer. Soc. of Mech. Eng. Mech. Hall.

Tuesday, Nov. 4, 1941:

12:40—Amer. Inst. of Elect. Eng., Norwood.

12:50—Amer. Soc. of Mining and Met. Eng. Met. Bldg.

Wednesday, Nov. 5, 1941:

12:40—Amer. Inst. of Chem. Eng. Chemistry Bldg.

12:50—Amer. Soc. of Civil Eng. Harris Hall.

Thursday, Nov. 6, 1941:

12:40—"M" Club. Parker Hall.

12:50—Independent Students, Parker Hall.

Friday, Nov. 7, 1941:

12:40—Rollamo Board. Parker Hall.

12:50—Miner Board. Parker Hall.

Please be prompt.

NOTICE—

All persons having proofs for their Rollamo pictures in their possession are urgently requested to turn them into Mrs. Brent at 208 W. 11th St., as soon as possible.

Research by University of California physicians indicates a connection between high blood pressure and excessive activity of the adrenal glands.

HOBY



Theo Hoby, 214 pound veteran tackle, although only a Junior, is playing his second season as first string tackle.

Miners And Bearcats Will Tangle This Afternoon

By Ed Goetemann

The Bears from Springfield will try to chalk up another win toward retaining the MIAA title when they meet the Miners on Jackling Field this afternoon in the annual Parents' Day game. Since Coach Howard Blair, former Rose Bowl player and twice named on the Big Ten all-star teams, took over the football destinies at Springfield in 1938, his teams have won 27 games, tied 3, and lost 4—a record hard to equal. The Bears won 18 straight games previous to last Saturday when they lost to an underrated Talequah, Oklahoma, eleven.

Some 300 football-conscious Bear rooters are accompanying the team to Rolla for the game today.

Judging by comparative scores the Bears should win this game, having beaten Maryville 13-7, while the Miners lost to the Bearcats 20 to 7. However, Talequah proved last week that the Bears are not invincible when they pulled the unexpected and crumbled the Bears' 18-game winning streak. Also, the Miners looked like they were back in form last Sunday in their game with the Blue Raiders. Although the game was a 6 to 6 tie, the Miners showed their best passing attack of the season. Rather weak in that department all season, the Miners found Moore and Dick to be a passing combination that clicked. The Miners will go into this game with nothing to lose and everything to gain, while the Bears will start under the strain of having to win this game to stay on top in the MIAA.

Coach Blair does not have to worry about backfield replacements. He has a dozen backs who have been looking above par this season. Dwight Bumpus, a 147

pound powerhouse, is the outstanding quarterback in the conference this year, and will be at quarter for the Bears. He led the Bears in every drive they made this season, and has a pass completion record well over the 500 mark. Dean George and veteran Gene Rimmer will start at the halfback positions with Phil Crawford at fullback. Ed Lore and Dizadyk, two capable backs, will also see a lot of action in the backfield. Russ Kaminsky, All-MIAA end, and little All-American candidate last season, will pair with Dutch Nogel at the ends. Ray Bean and Howard Elliot will start at the tackles with VanNostrand and Adamson at guards. Orville Pottenger will be at center. This starting combination is composed of all lettermen.

The Miners' squad is back at full strength for the game with Springfield. Gilbert Carafiol, freshman guard who played all of the earlier games will be back in the lineup after missing the last two games due to a strained knee. Gene Veale will be at the other guard. Both the Miner tackles, Captain Kromka and T. J. Hoby were ailing with sore shoulders, but they too will be in top shape for the game. At the ends will be Nick Mushovic and sophomore John Moore, who proved his pass snatching ability against the Blue Raiders by taking a pass from Dick for the only Miner tally. Kiburg will start at center.

Much of the Miner's hope for victory will be put on Paul Fullon who has been the most consistent ground gainer for the Miners all season. Jim Miller will be at the other half. Al Dick, who passed for the Miner touchdown against the Air Corps eleven will start at fullback with Jones calling the signals.

TODAY'S LINEUP

Wt.—Springfield		Miners—W.t
175—Kaminsky	L	Kromka—195
189—Elliot	LE	Mushovic—194
162—Van Nostrand	LG	Veale—176
186—Pottenger	C	Kiburg—167
158—Adamson	RG	Carafiol—195
175—Bean	RT	Hoby—214
175—Nogel	RE	Moore—165
149—Bumpus	QB	Jones—173
155—George	LH	Fullon—173
170—Rimmer	RH	Miller—165
160—Crawford	FB	Dick—151



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Materials Testing Demonstrated By Mechanics Dept.

The mechanics department has its laboratories open today so that visitors may inspect them. Tests are to be made on steel, wood, and concrete. The purpose of these tests is to show the tensile, compressive, transverse, torsional, and columnar strengths of these materials.

The mechanics exhibits are to be in the basement of Harris Hall.

Mechanical Labs Open; Engines And Pumps Displayed

The Mechanical Department's display for Engineer's Day consists chiefly of young mechanicals at work. The forge and machine shops will both be open, and parents may see their sons at work on practicable applications of mechanical engineering. Lathes, milling machines, grinders, drills, punch presses, and other types of machinery will be in actual operation.

In addition there will be several exhibits on display. An early type of automatic refrigerator will be shown in operation. A Pratt and Whitney radial airplane engine, along with various parts of a similar engine, will be shown. Another display illustrates a principle of mechanical vibrations, while still another will have centrifugal type feed water pump. Several types of steam and air engines will also be shown.

MADISON, Wis.—(ACP)—As "bookkeeper" for the University of Wisconsin's gift and endowment funds, M. E. McCaffrey, since 1905 secretary of the university regents, admits one of his greatest interests is watching the growth of the huge gift total.

Civils Showing Survey Instruments And Water Test

The civil engineering department has on display an extensive group of exhibits for Parents' and Engineers' Day today.

A display of the various types of surveying instruments are on display on the first floor of Harris Hall. It includes transits, levels, alidades, chains, sextants, stadia, rods, level rods, and several other articles necessary to accurate surveying.

The design courses of the C. E. department are exhibiting some student work on the first floor of Harris Hall. A variety of blue prints and detail sheets are on display.

Professor Millar, of the Sanitary Engineering branch of Civil Engineering, is displaying several exhibits and experiments on the second floor. One of these shows the amount of soap required in different sources of water.

Physics Boys Show A Varied Exhibit

The Physics Department will have regular laboratory classes in session in Rooms 2, 4B and 5 in Norwood Hall throughout the morning, and a lecture class in Room 104 at 11 o'clock to which visitors are invited. In addition to the regular classes, various exhibit and demonstrations will be presented in Room 4A. Exhibits are planned concerning such subjects as light with stroboscopic and polarization apparatus, and electricity and magnetism, with a floating magnet and a powerful Alnico magnet. There will be a demonstration of several wave motion setups among which will be a standing wave. The principal of controlling traffic lights with the electric eye will be demonstrated. Apparatus dealing with radio active minerals will be shown. Also it will be interesting to observe the old fashioned heat engine operating on hot air. Attention of visitors is directed to the recording humidity thermometer and recording barometer which are located at the Northeast entrance of Norwood Hall. Consult these instruments and do your own weather forecasting.

Mets Will Be In Labs During Day

The Metallurgical Engineering and Ore Dressing Department will have their regular classes in session for the Parents'-Engineers' Day program. One of these courses is the fire assaying of ores and metallurgical products by various methods. This course will be demonstrated in the laboratory and parents and visitors will see MSM students working at the coal, coke, and gasoline furnaces.

A course in the principles of metallurgy will also be in session in the morning. In this course is included ferrous and non-ferrous metallurgy and heat treatment. Ore dressing problems are studied in the laboratory and the physical metallurgy testing laboratory will be open. Alloy steels, electro-metallurgy, and the metallurgy of iron are also courses in this department.

Soldiers Will Demonstrate Field Equipment

Through the request of Major M. D. Orten, professor of economics at the Missouri School of Mines, the Sixth Engineer Battalion at Ft. Leonard Wood has arranged to display a squad of combat engineers and some of the equipment of the battalion.

There will be two officers and twenty-five enlisted men, and they will be prepared to operate and explain any of the equipment.

The equipment will consist of one jeep, one command car, one motor cycle, one 1-2 ton pick-up truck, one 1-2 ton truck, one 4 ton truck, one trailer, one portable air compressor with band saws, one water purification unit which will be in operation, one Barko portable hammer, one portable lighting set, one stereoscope, one bull dozer, one demolition set, one carpenter set, and two pioneer sets.

"Did you hear about the old maid who went for a tramp in the woods?"
"I hear she ended up with a chap on her hands."

Drawing Classes Show Instruments And Methods

On the third floor of Norwood Hall the drawing department will have on display a large number of drawings, drawing instruments, and methods used in engineering drawing. Three of the four instructors will be on hand to talk with the parents. Besides Dr. Mann, Professor Black, and Professor Young, there will be a number of students in the drawing rooms conducting the various tests and some will be in their regular classes. The two classes in session will be Professor Zeuch's descriptive geometry course in room 302 and Professor Young's course in engineering drawing, room 221. Mr. Black who is in charge of the exhibit will have a display on architecture, city planning, advanced lettering and one on building materials used in construction in room 301-A.

There will be a definite line of traffic through the rooms to avoid confusion. Parents and visitors will be shown through the entire department.

In the hall on the third floor of Norwood Hall there will be an exhibit of special drafting instruments on display in the glass case. A continuous blue printing machine and an ozalid printing machine will be in operation.

Dr. Mann will have a series of tests and demonstrations in room 301-B. Among his tests are the aptitude and color blind tests, and a collection of the record sheets of personal tests. Dr. Mann will have a demonstration in Old English Lettering and also in the use of the Wrico Lettering Guide. Along with this a Universal drafting machine will be on display.

A few of the drawings made by the first classes in 1872 will be shown and also two small bridges and a model steam engine made by the same class.

"More Frosh Discipline" Say Sophs At Meeting

A meeting of the Sophomore class was held last Wednesday afternoon, the outcome of which was a decision to enforce more discipline upon the freshmen.

An assessment of fifty cents per man was decided upon to be the class dues. Also, all interested Sophomores were asked to report for football practice, in order to defeat the Freshmen in the annual Frosh-Soph battle.

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Radio Club Invites Visitors To Talk Over Short Wave

Ever heard "W9EEE calling CQ" on your radio while tuning across the dial? Well, according to plans, you will have the opportunity to speak over that station the morning of Engineers' Day.

Bill Eagle, Ed McClain, Bob Hanna, and Bob Seigle of the Radio Club, and the EE department have arranged an elaborate special set-up to make the demonstration possible. Ordinarily, the station is operated remotely through a special cable from the east tower of the gym, the transmitter itself being located in the Power Plant Building. Two telephone lines have been connected from Norwood to the control room in the gym. Over one of these pairs the microphone current will pass, and the other will be used as a telephone line so that the control operator at the remote studio in Norwood will be in constant touch with the station control operator in the gym. Two-way operation will permit visitors in Norwood to hold conversations with other stations in the United States.

In order to dispense with any irate complainants, the men are said to have set up two machine guns on tripods in Norwood.

Hydraulics Lab Showing Pumps And Meters

The hydraulic engineering division of civil engineering is displaying a large amount of equipment in the basement of Harris Hall today. The professor in charge of the laboratory is showing two methods of measuring the discharge of water; by the use of an orifice and the use of weirs.

Another main attraction of the hydraulics lab. is that of three pumps. The first of these is a six inch pump which delivers 1250 gallons per minute at an 85 foot head. The second pump is four inches in diameter and delivers 650 gallons per minute at a 145 foot head; the third is a two inch pump giving 250 g. p. m. at an 85 foot head.

Mining Department Showing Pictures

The Mining Department will show four different types of mining in motion pictures for Engineers' Day. These pictures will be shown at Parker Hall in the auditorium. The pictures will show iron, nickel, lead and copper mining. Both the petroleum and the mining departments will be open to the inspection of visitors.

Mineral Museum Is Geology's Main Feature

The department of geology, located on the second floor of Norwood Hall, has prepared a number of exhibits designed to show the visiting parents the kind of work done in the geology classes.

The Mineral Museum, with its collection of minerals valued at \$10,000, will be open for inspection.

This museum was started in 1904, and has grown steadily since that time. It is probably the best of its kind in the State, containing approximately 2500 specimens.

In Room 202 of Norwood Hall the mineralogy class will be in session to demonstrate how laboratory work is carried on by the students.

Due to the fact that the Geology Department has outgrown its quarters it has become necessary to place some of the exhibits in the hall of the second floor. One of the more spectacular exhibits placed here is the collection of fluorescent minerals, which shows the fluorescent properties of certain minerals when they are exposed to ultra-violet light.

In Room 206 micro-fossils slides will be on display. These slides show the many kinds of animal structures that existed in past ages, the skeletons of which are found in many of our common rocks. Thin sections of rock will be subjected to polarized light to show the optical phenomena produced by certain minerals.

Highway Patrol Exhibiting Crime Solving Tools

Sergeant E. T. Hockaday of the crime detection laboratory of the Missouri Highway Patrol will display some interesting equipment used in crime detection in Room 123, Metallurgy Building.

The equipment displayed will be:

- (1) Comparison Microscope
- (2) Portable X-Ray for Bomb examination
- (3) Finger print comparator
- (4) Pictures showing Patrol activities.

Wisdom: Knowing what to do next.

Skill: Knowing how to do it.

Virtue: Not doing it.

Electricals Boast of Unique Exhibit

Perhaps one of the most interesting displays on the campus has been prepared for Parents' Day by the Electrical Engineering department in Norwood Hall. The department presents a wide variety of unusual and interesting electrical phenomena.

In Room 11 the E. E.'s present two unusual attractions, the tin can motor and the bucking broncho motor. Other attractions are rotating magnetic flux, Ward Leonard speed control, and phase wound induction motor.

The display in room 9 includes a cathode ray oscilloscope, which shows forms of alternating current waves; a stroboglow, an instrument which makes rapidly moving objects appear stationary; and a burglar alarm so sensitive that the presence of a human body will set it off.

Electrical transmission is the theme of the display in room 106. Complete details of the dial telephone system are presented, and television equipment under construction by one of the students is displayed. Other features are standing waves, artificial transmission line, electronics and communication laboratory equipment, and an amateur transmitter demonstration.

Additional electrical equipment is displayed in room 7. This display includes automatic motor control, Crocker-Wheeler three-phase motor, the dynamometer and parallel operation of alternators.

STATE COLLEGE, Pa.—(ACP)

A mobile chemistry laboratory, housed in a two-ton truck, has been placed in use by Pennsylvania State college to meet the emergency demands of defense education throughout the state.

The laboratory equipment will travel approximately 10,000 miles by 98 class centers where high school graduates are being trained by the college for technical jobs in defense industries.

Russell Sage college has added 11 new faculty members.

Central college, Fayette, Mo., has a college chorus of 80 voices.

Dr. Charlotte Boatner, assistant professor of chemistry at Tulane university, has discovered an allergy preventive to relieve hay fever and asthma.

Ceramists Operate Kilns; Souvenirs Given To Parents

A number of educational exhibits have been prepared by the Ceramics Department under the direction of Dr. Paul G. Herold, department head. These exhibits are located in the basement and on the second floor of the Mining Building.

In the basement a number of kilns will be in operation under the supervision of the students.

They will make glazed sheet-metal ash trays which will be given to the visitors of that department as a Parent Day Souvenir by the student chapter of the American Ceramics Society.

The students will also conduct an exhibition of pottery making by the casting process. In this process the prepared clay and water mixture, or "slip" is poured into plaster of paris molds which absorb some of the water from the clay and forms the desired ware. The ware is then placed in the furnace and fired at high temperature.

On the second floor of the Mining Building there will be a number of exhibits showing various drills, and other equipment used in mining operations. Models and plans of mines and mining machinery are also shown here.

There are a number of display cases on the second floor which contain specimens of ceramic products made in Missouri and in other parts of the world. This group contains fire brick, dishes and glasses.

USGS Displays Map Equipment

The topographic branch of the United States Geological Survey is displaying a very elaborate exhibit on the science of map construction today on the third floor of Harris Hall.

The three ground methods of map construction are being shown, one of which is by using the alidade, transit, level, and field projectors. The second method is by constructing sheet projections and location of positions by coordinates. The third method is by assembly. The office method of map construction is by the use of stereo-comparagraph and radial construction.

The multiplex camera equipment is another main feature of the display. This equipment includes the multiplex aero-projector, the basic principal of which is to give a spatial anaglyphic model of the terrain to be contoured. Aerial cameras, aerial photographs, and planimetric and contoured maps will also be displayed. Other displays will be horizontal and vertical contour maps, a completed contour map, and a sample of the accuracy with which drawings can be made.

The inking department is showing how inking is used for color separation for lithographic reproduction. The order of procedure is being shown, along with samples and engraved sheets.

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Below is an article from "The Tech" MIT's school paper which reminds us of the good old days. The freshman class preparing to depart for their annual camp trip to Lake Massapoag were early initiated to the traditional Sophomore-freshman rivalry on Friday afternoon. The assembled freshman were subject to decisive jeers punctuated by not infrequent waterbags hurled from the eminences of the Walker, cornices by agile Sophomores.

Enough spirit was finally aroused in the hearts of a few freshmen who dared oppose the upperclassmen, and a violent but ineffectual battle ensued. Moreover, possession of practical experience in the art of removing other people's pants heavily favored the Sophomores who took good advantage of this situation.

After the Sophomores were foiled in an attempt to bring a fire hose from Walker to play on the crowd of lamblike freshmen, they resorted to the water dropping tactics. Upon gaining entrance to a publications office on the third floor of Walker the members of the class of 1944 went out through the window and crawled along a ledge to the front of the building. There, from their precarious position, the Sophomores let fall bags and balloons full of water.

Faculty Glossary For Parents

Bewildered young college graduate unable to succeed in the business world. Usually young enough to know several good jokes. Marks severely as he is only one chapter ahead of his students. Lowest in scale of student enemies. Assistant Professor:

A promoted instructor. Promotion contingent on his lectures. When they become musty, he becomes an assistant professor. Will start to write a text book and get married. Encourage him to talk about his wife and baby. Associate Professor:

The most dignified member of the faculty. Originator of the "working-my-way-through-college" racket; sells his own books instead of magazines. Receives promotion for the same reason as a bus driver . . . number of years in service. Receives title, however, instead of gold stripe on his arm. Professor:

A ripe, disillusioned old man with over-ripe lectures.

"Vintage--1912" Proclaimed by Miners To Be The Most Popular Graff Number

The Graff Ballet, famous all-American choreographers, were presented to the student body Wednesday night in Parker Hall as the third of a series of programs presented by General Lectures. The ballet, featuring Grace and Kurt Graff, is famous all over America for its outstanding performances and talent.

In the opinion of the four-hundred members of the audience, the most popular of the numbers presented by the ballet was one entitled, "Vintage--1912", in which members of the ballet dressed in periodical clothes suited for 1912 atmosphere. Songs which formed a part of the background for the number were such currently revived tunes as "Oh, Johnnie," and "Dark Town Strutter's Ball." The dancers were called back after this number for several encores. The most artistic of the dances was one called "Romance," which was made very striking by color and dance

forms. The Graff group was first organized several years ago as an outgrowth of a Federal Theater project in Chicago, and since its conception has become well known nationally and internationally.

Perhaps the most unusual feature of the Graff Ballet is their headquarters, or "home base" at Newfane, Vermont. Here for the five summer months and for six weeks during the winter the entire company gathers to organize new programs, create new dances, design new costumes and regain new strength for the strenuous months they are on the road. The camp is run entirely on a co-operation basis—the work is divided equally among all hands. They plant their own gardens, cook their own meals, wash clothes and dishes, all in the same spirit of co-operation. The result is a well balanced and thoroughly organized cast when the fall season rolls around.

Colorado Univ. Offers Special Math Courses

BOULDER, COLO.—(ACP) — Special courses in mathematics to make easier in later years the chores of figuring the family budget and the cost of a tankful of gasoline for the car are advocated by a Colorado professor for high school students who do not plan to go to college.

Two separate curricula in mathematics are the plan of Dr. Earl R. Douglass, college of education director for the University of Colorado and author of several mathematical texts.

"Since various types of calculation are needed more and more in daily life, the curriculum for those not going to college should be made practical," the professor says. "Use of the automobile, for example, has greatly stimulated use of mathematics in such problems as calculating time and distance. The person who isn't good at arithmetic is handicapped in his vocation, his purchases, and in other phases of living."

Professor Douglas advocates a four-year high school program of arithmetic, algebra and geometry for the general student, and a special three-year program of algebra, geometry and trigonometry for those preparing for college.

Rider college, Trenton, N. J., has added a medical secretarial course.

Campus Poll Shows Co-eds Have Their Own Opinions

The familiar picture of a gloomy, bewildered college youth is headed for the museum wall, if results of a survey of co-ed opinion at the University of Texas may be believed.

The poll, questioning a representative group of 400 from dormitories, sorority houses, co-operatives, and campus offices employing students, showed Texas co-eds to be possessors of definite opinions on everything from politics to hair-ribbons.

The draft is changing the plans of many university students, but Texas girls aren't opposed to it. They aren't especially enthusiastic, either, but they mark themselves up as being resigned—recognizing the necessity for military training. They want to do their part in defense, too, but they'd prefer it in the medical or nursing service and in home defense units.

But while they are conscious of national problems, they aren't too preoccupied to take account of clothes and appearance and interior decoration. They shout down the popular notion that co-ed dormitory rooms are a nightmare of party favors, college pennants, and unmade beds. The style in room decoration, the poll declares, is distinctly utilitarian. Bureau drawers, an impressive number say, are organized on a system. There is, however, a shameless minority which admits living in a room that is a "scramble."

Even in this modern age, "mother knows best." At least 75 per cent of Texas girls declare that they discuss most of their problems—dates, careers, love, religion—with their mothers. But they want to bring the subject up; no "prying" allowed.

Believe it or not, if a choice were forced upon them, they'd take a good mind over good looks—two-

to-one But they're willing to work on their looks—even if they do say that the motive behind their campus clothes is comfort, not a desire to impress anyone.

The average yearly clothes budget is about \$300. That takes care of those saddle oxfords, socks, skirt and sweater for campus, as well as something fancier for dates. In the "glamour game," they'll take perfume, tailored clothes, a startling coiffure, and a good conversational "line."

Sixty-three per cent think the morals of college students are about as good as those of young people at home. Fifty-three per cent attend church occasionally, 35 per cent regularly.

DANCE DATES

- November 1—"M" Club
- Nov. 7—Theta Kappa Phi
- Nov. 8—Kappa Sigma
- Nov. 14—Tri-Tech
- Nov. 15—Shamrock-Engineers
- Nov. 19—Lambda Chi Alpha
- Dec. 5—Sigma Pi
- Dec. 12—Pi Kappa Alpha
- Dec. 13—Sigma Nu
- Dec. 19—Kappa Alpha
- Dec. 20—Triangle
- Jan. 10—Kappa Sigma
- Jan. 17—Lambda Chi Alpha



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On The Bench

With Theo Hoby

Warrensburg impressions: The way the "Mule" was driven all over the field, but then couldn't be ridden over that last yardmarker. The super defensive play of a couple of the Warrensburg gents, Baltrysaitis and Elliott by name. Someone should have told them forcefully that the Miner backfield is supposedly composed of four "Miners," and not of four "Miners" and two "Mules" as they kept insisting. Watch for them on the all-MIAA team as guard and center respectively. The functioning of the Miller and Fullop groundgainers corporation which on two occasions set up what seemed to be potential touchdowns, only to have some over-anxious Miner called for clipping. The unique but spectacular "armless tackles" with which Mushovic annihilates opposing ball-carriers by merely running into them at full-tilt. As yet Mushovic has only used this device on ball-carriers scaling less than 150 pounds, however he promises that with just a little more time his technique will reach the perfection stage. Finally the discouraging 0-0 outcome of this stumbling and fumbling encounter which saw the "Mules" register not a single first down.

Maryville incidents to remember: The jinx that comes with Homecoming, perhaps if we were to schedule a team like Arkansas State on this day we could overcome such a jinx. That surprise quick kick of the Miners which backfired so drastically. That boy Schottel and his persistent punts which boomed over sideline markers, at or near our goal line, all afternoon. Those laterals which set up the last "Bearcat" score. Miller's catch of that important

pass, despite a painfully injured neck. Bullman's remark about Weilmuenster's ability to guide the team over the goal line "even if he had to make up a play to do it." George's prompt fulfillment of this wish. The reluctance or dread of scoring which the "Miners" manifest—witness the 4 downs and 4 yards incident. The 20-7 beating administered by the "Cats."

Splashes in the Raider game: The taste and feel of the Walsh Stadium mud which decorated the lucky participants. The imposing appearance of the "Blue Raider" team which averaged a mere 201 pounds. The drive of the Raider backfield. The surprising ease with which the Dick to Moore passing combination clicked with the slippery pigskin, completing something like 11 out of 22 passes. The officials' bonehead mistake in blowing the whistle with Moore away for the winning touchdown. The play of the day with Fullop lugging the leather for some fifty yards to the Raider's 4 yard line. Moore's fourth down snag of the pass for the touchdown. Hammann having his fun out there sliding around, downing punts and ball carriers. The black eye, gashed head, and injured shoulder sported by some of the Miners as souvenirs of the game. There's nothing like a black eye to cause comments and speculations. Finally that unavailing and indecisive 6-6 score of the fracas.

A fourth down touchdown plunge: The Miners to take Springfield in a free scoring game today!

Dad: Son, promise to give up all your bad habits and I'll leave you a hundred thousand dollars."

Son: "Gwan! What would I do with a hundred grand and no bad habits?"

Off the Campus

Lambda Chi Alpha

Lambda Chi Alpha was honored by a surprise visit by Brother E. Fischer and his son, also a Lambda Chi, last Wednesday evening. The elder Mr. Fischer is an ex-president of the fraternity's more than one hundred chapters. He is also author of the Paedagogus, the pledge training manual. Mr. Fischer and his son were on their way to Muskogee, Oklahoma, where his son is to be married.

Captain and Mrs. Gordon and Lieut. and Mrs. Doll were dinner guests of the chapter last Wednesday evening. Lambda Chi is proud to have such entertaining faculty guests, even if the fellows in the house cannot match them in a good game of bridge or pinocle.

Brother H. R. Absher visited the house last Tuesday evening, while enroute to his home in Nashville, Ill. He has just been released from the army.

Kappa Sigma

The Kappa Sigma Fraternity expects a large turnout for Parents-Engineers' Day. The parents and guests are: Mrs. K. Gettys, Dr. and Mrs. J. L. Wood, Mr. and Mrs. L. A. Fleschner, Mr. and Mrs. O. E. Heinicke, Mr. and Mrs. L. J. Zoller, Mr. and Mrs. A. T. Sindel, Mr. and Mrs. W. N. Bachman, Dr. and Mrs. A. L. Naert, Mr. R. C. Crosby, Mrs. P. H. Brueschke, Mrs. M. Domian, Mr. J. Vukelic, Mr. and Mrs. O. L. Krueger, Mr. and Mrs. W. H. Brand, Mrs. L. M. Ploesser, Mrs. W. Hold, Mrs. L. Geil, Mr. & Mrs. Hubbard, Mrs. G. N. McReynolds, Miss Virginia Guithuys, Miss Claire Zoller, Miss Pat Thompson, Miss Ruth Boaz, Miss Lorena Ross, Miss Roberta Crosby, Miss

Henrietta Brueschke, Miss Katharine Kamp, Miss Marie Dominian, Miss Bobette Wiehe, Miss Jean Haumueller, Miss Janet Rolison, Mr. John Angel, Mrs. Edna Stueck and Prof. and Mrs. Frame.

Triangle

On Tuesday of this week we had the pleasure of a visit by Ensign Don Petersen, the brother of Ken Petersen. Don is enroute to his home in St. Louis from the advanced training base of the Naval Air Corps in Miami, Florida. At the end of his two-week furlough, he will report to the Norfolk, Virginia, station for carrier service.

We were also honored on Sunday by the presence of Mr. and Mrs. Vincent Salvo and their daughter, Celeste. The Salvo family spent the day in Rolla with their son, Joe.

Gene Slade and Les Maher were in Columbia, Missouri, for the Tiger-Cornhusker game. George Wagner and Don Davis visited friends and relatives in St. Louis and East St. Louis respectively. Ralph Neubert spent the week end with his mother and a party of

friends at their country home near Bourbon, Missouri.

Alpha Lambda Tau Guests of Phi chapter over the last weekend were: Mrs. Mabel Key, mother of President Enos Key, who came from Salem, Ill., and Miss Claudine Garner also from Salem.

Miss Audrey Bell, Miss Pat Kennedy, and Miss Marybelle Lawling came down from Missouri U. for the weekend as guests of Enos Key, Roger Butler, and Bob Dunham.

All were dinner guests Sunday including Mr. and Mrs. Dan Kennedy of Rolla.

Brother Ray Crow of Xi chapter in Chattanooga, Tenn., dropped in for a visit on Saturday evening. Brother Crow is stationed at Fort Wood in the Quartermasters Detachment.

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Young Bill Hickok

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U. S. Manganese Sources Are Being Worked Overtime For Defense Demands

This nation, confronted with de-creasing reserves of stock man-ganese, is trying to tap its own resources of the strategic metal. Although we consume approxi-mately one-third (50,000 tons) of the world's production of manga-nese, we produce only about 10 per cent of our needs. Deposits of deposits of low grade manganese are also being exploited to pilot stations, drying and screen-meet, the demands of our steel in-dustry. There are numerous small cent manganiferous nodules per

500 tons of ore. This concentrate is being shipped to Nevada and Utah for experimental work.

The South Dakota ore is low grade and complex, containing manganese in the carbonate form associated with several persistent gangue minerals. A cloggy shale causes a considerable amount of trouble in screening. Another metallurgical difficulty is improper drying in the oil-fired kiln. Several large scale screening and sorting tests were conducted by Metallurgist F. D. De Vane in order that the ore could be advantageously graded to eliminate coarse and barren shale. The other plant of 250 tons daily capacity, operates upon the explosive shattering of the ore by steam, as in the similar manufacture of puffed rice. By sudden release of the steam pressure upon the ore in a chamber, fissures are created, and the manganese-bearing nodule are partially separated from the shale and clay with which they are associated. The several technolog-ical difficulties encountered in this technique made difficult the continuous operation of the unit.

Another experimental plant has been erected in Nevada, where there is an estimated 1,000,000 tons of 10 per cent manganese ore. The present installation processes 40 tons per day. It has been found that flotation is a feasible process for the concentration of manga-nese ores. Previously, the Anacon-da Copper Co., had been floating manganese ores, but similar at-tempts were unsuccessful in treat-ing Las Vegas manganese ores. Finally, by industrial and research co-operation a new floatation re-agent DLT-958 was developed, and is giving good results. A 70 per cent recovery is made by float-

"M" Club Dance Concludes Parents' Day Program

The second annual "M" club Parents' Day dance will be held tonight in Jackling Gymnasium. It will be the last event of the day, beginning at 9:00 p. m. and lasting until 1:00. The music will be furnished by the Varsity Or-chestra, under the direction of Eric Casey. They will wear tuxedos for the first time this year.

Admission to the dance will be sixty cents pre-sale and seventy-five cents a the gate. Parents are cordially invited to attend.

Seniors Nominate Candidates Thur.

Nominations for Señor class of-ficers were made Thursday at a meeting of the seniors in the auditorium. Those nominated for president were Jack Lyons and Sid Burberry; vice-president, Jacques Zoller and Ken Schowal-ter; secretary, Bob Brackbill and Craig Fraser; treasurer, Wig Law-ler, Harold Krueger, and George Wolf.

A ballot-box will be placed in the Registrar's Office on Tuesday, Wednesday and Thursday, Nov. 4, 5 and 6. All seniors may vote but ballots must be signed to count.

tion with this reagent, and the concentrate is 52 per cent manga-nese.

The cost of production of manga-nese from the South Dakota re-serves does not permit competition of these ores from Russian ores, during normal times. However, the estimated 10,000,000,000 tons of low-grade S. Dakota ore can be used during the present national emergency. With but 16 months' supply of manganese reserves, desperate efforts are being made to supply the deficiency if this strategic metal. Such is the stat-us of this country's efforts to produce domestic manganese.

Music Club Meets Again Sunday

The Music Club will meet Sun-day in room 104 Norwood Hall at 7:00 P. M. The program will start with the "Overture to Wil-liam Tell," by Rossini, followed by Mozart's 40th Symphony, in G Minor. The poignant "Intro-duction and Rondo Capriccioso" by Saint-Saens will usher in the ma-jor work of the session, Beeth-oven's 5th Symphony. The first four notes of this work provide the "V for Victory" signal which has swept the country.

As always, everyone interested in an evening of good music is cordially invited to attend.

Mathematics, Greek and Latin made up the first curriculum of the University of Michigan.

EXHIBIT

(Continued From Page 1)

Military and Physical Education Departments.

(9) The Mining Building houses the departments of Ceramics, Mining, Petroleum, and the Mis-sissippi Valley Exp. Station of the U. S. Bureau of Mines.

(10) Parker Hall in the Ad-ministration Building and con-tains the Library, Auditorium, and the Psychology Dept.

RITZ

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—ANNOUNCING—

The Opening Of The Balmat School Of Love

For those who have long felt a deficiency in the all-important art of Love, Professor Balmat is happy to announce that he will be able to instruct a small and select group in the many intricacies of the field in which he is so accomplished.

Professor Balmat has recently returned from the East where he has carried on extensive and intensive research into his chosen profession. He will present a paper on his findings and conclusions arising from this work.

The Professor is the chief exponent of the school which depends upon the so-called "Innocent Approach," or "The Surprise Attack." True, the Professor, through long years of training, has developed a physiognomy which is one of the most perfect in existence for this type of approach; however Professor Balmat guarantees that in his course of lessons even the "Wolf" type of face may be trained to register only in-nocence and harmlessness.

The course will consist of eight lessons (not to be con-fused with the La Zonga lessons) and may be taken for the small sum of sixteen dollars. Each student will be expected to furnish his own laboratory material.

The date of the lectures will, of a necessity, be an-nounced later as Professor Balmat is suffering from an occu-pational disease contracted while pursuing his research. Upon his complete recovery the courses will be started.

PROF. ROBT. BALMAT—M.S.M. METALLURGY '42

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