

FOR RENT—A six room, modern house on Keiser avenue. Will sell also. Phone 312. (108)

COLUMBIA NOTES

L. F. Carleton went to Cincinnati, O., today to hold religious meetings. J. P. Gant went to Mexico, Mo., this morning on business. J. H. Cox, a student in the College of Agriculture, went home this morning. He will return Sunday. Mr. and Mrs. James Lanthan and their daughter, Bessie, went to Meadville, Mo., to live. Mrs. R. T. Reid went to Mexico to live on the farm there. H. A. McBride went to Hallsville today. Frank Claypool went to Centralia today on business. Mr. and Mrs. W. W. Goslin of Hallsville were here visiting today. E. I. Crockett went to Springfield, Ill., on business today. T. S. Gordon went to St. Louis today on business. Mrs. H. H. King went to Rucker to care for her husband who became ill there. A. D. Turner of Centralia was here visiting Henry Silver today. M. G. Rose went to Macon to visit his daughter, Mrs. S. L. Pettus, today.

Exceptionally Good Weekly for Sale.
The Hale Hustler-Leader, published weekly in an exceptionally good town with no competition, is for sale. Few country newspapers have as good equipment. Three presses, paper cutter and an unusual large amount of other equipment. Type all new and plenty of it. Papers are on file with State Historical Society, Columbia, or will send copies of back numbers. Have excellent circulation. Will not sell part nor lease. Reason for selling—I am investing heavily in the automobile business. Don't answer this unless you have the money and mean business. Hale Hustler-Leader, Hale, Mo. (adv)

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HOW NEWSPAPER PICTURES ARE MADE

A Reporter Describes Processes by Which Cuts Are Manufactured.

IN SWITZLER HALL

School of Journalism New Engraving Plant Now Is Operating.

"If you have the time to sit around awhile, come in and I'll show you the evolution of an engraving," was the invitation made a visitor by an industrious man in the basement of Switzler Hall. The visitor stepped into the new engraving room of the School of Journalism.

"Some new films have just been sent down from the news room," said Herbert Smith, the engraver. "I'll show you all the processes the picture goes through before it becomes a finished cut."

"Photo engraving is divided into three processes," said Mr. Smith. "These processes," said Mr. Smith, "engraving and finishing. In large engraving plants, there are workmen for each process, but here I do all the work. The first part of the process is to take a clean piece of glass and albuminize it with water and white of egg solution. This makes the collodion stick to the glass."

Sensitizing a Plate
Wondering what collodion was, the visitor followed Mr. Smith into the dark room. Carefully explaining all the while, the engraver poured the collodion, which is gun-cotton dissolved in ether and alcohol with other chemicals incorporated, over the plate. This gives the collodion an affinity for silver. Turning out the light, the engraver gave the glass a bath in a solution of silver nitrate. In three and a half minutes the glass became sensitive to light.

In an effort to be of assistance the visitor turned on the light, ruining the plate. Overlooking the blunder, the engraver went through the process again. The blunder proved a wise one for the visitor for at first he had only a confused idea of the process.

After taking the plate out of the silver bath, the engraver exposed it in a plate holder in which a screen had already been placed. The screen consists of an aluminum frame with two pieces of glass glued together with Canada balsam. Each piece of glass has parallel lines on it. One hundred to the inch in this case. The two sets of lines cross each other at right angles forming a great number of little squares. It is through these that the light is filtered on its way from the copy on the board to the sensitized plate.

Photography Is Used.
Carrying the plate holder into the work room, the engraver next placed it in the camera to photograph the copy. That is done by giving three separate exposures. The next step was a big surprise to the visitor. A picture of the photograph was made by first placing a piece of white paper over the photograph. This was done to create an artificial dot in the dark shadows of the new image, according to Mr. Smith.

The rays of light emanating from dark shadows are too feeble to make an impression on the plate. Two more exposures served to build up the middle tones and high lights. After these exposures a second trip was made to the dark room. By this time the different tones and lights were all a confused mass in the mind of the visitor. In the dark room the plate was developed with iron sulphate and acetic acid. Cyanide of potassium was then used to intensify the plate.

"By diluting cyanide with water I bring the dots down to the proper size," said Mr. Smith. "This is called cutting. One drop of that cyanide would kill a person."

The Etching Process.
Blackening the negative and drying finished the operating process. Then began the etching process. Cutting a piece of zinc, he polished it with charcoal to give it a better surface. After rinsing the zinc plate with water it was carefully etched to prevent the acid from eating through.

The engraver then stepped to a gas jet where he whirled the zinc plate over the flames until it was dry. The negative was then exposed in a printing frame. Ammonia bichromate in enamel makes it sensitive to light. Fish glue in the same mixture gives it a body.

The plate was developed under flowing water, dyed with violet dye and the enamel hardened with chromic acid. After thoroughly burning the plate over the flames a golden bronze tint came over the plate. The back of the plate was then painted with asphaltum, then etched in a rocking tub with nitric acid. This ended the etching process.

By this time the visitor had watched

the pictures appear, fade and appear again under the various processes worked out by the skilled engraver. After testing the plate, Mr. Smith announced that we were ready for the finishing process.

The Finished Cut.

Near the door is a highpower drill known as a routing machine. This drill has a speed of 15,200 revolutions a minute. The next fifteen minutes was spent by the engraver in beveling the edges of the cut. This is a slow and painstaking job. "Well! We're through with the dark work now," said Mr. Smith. Emphasizing his statement by cleverly mounting the cut on a block of wood in a few minutes, he then tossed the cut over to the visitor's examination. A proof was made. The cut of a University scene was now ready for printing in the University Missourian.

JUDGES INSPECT RUTLAND ROAD

County Court and Railroad Representatives Look Over Highway.

William Johnson, Ben Tate, and J. T. Rowland, judges of the county court, and George A. Ridgeway, highway engineer, went to Rutland this morning to inspect the county road there. They were accompanied by A. E. Boughner, superintendent of the St. Louis district, of the Missouri, Kansas and Texas Railroad, and R. M. Garret, superintendent of the road maintenance of the same railroad.

The county road at Rutland is widening to such an extent that it almost reaches the railroad tracks. To avoid accidents in the future, the Missouri, Kansas and Texas sent its representatives to investigate the condition of the road and to ask the county court to make all necessary improvements.

RADIUM FOR THE POOR

Secretary Lane Withdraws Public Lands to Prevent Monopoly.

WASHINGTON, Jan. 27.—Secretary Lane today declared before the Mines Committee of the House that all remaining radium ore land would be withdrawn to prevent monopoly. This move, it is said, is necessary to protect Americans from the ravages of cancer, the remedy of which ought to be within the reach of all, instead of only the wealthy. Investigation has shown that while 75 per cent of the radium is now manufactured in this country, there are now only two grams here. We have been forced to send it to Europe and then buy it back.

FRUIT GROWERS WIN

Supreme Court Upholds Order to Reduce Refrigerating Charges.

WASHINGTON, D. C., Jan. 27.—The California Fruit Growers' Association won an important victory in the Supreme Court today when the order of the Interstate Commerce Commission to reduce the charge on refrigerating cars greatly was upheld.

The railroads which were sued are the Santa Fe, Southern Pacific, and Salt Lake railroads. They were also denied the right to ice the cars exclusively or to prevent the shippers from pre-cooling or pre-icing their cars.

Books to Be Sent by Parcel Post.

Books may be sent by parcel post after March 16. The new order was received from Washington by J. H. Guitar, postmaster, this morning. At present books are sent as third-class matter and the postage is a half cent an ounce.

Disturbing Negroes Fined.

Moss Arthur and Charley McQuitty, negroes, pleaded guilty to disturbing the peace in police court this morning. Each was fined \$5 and costs.

At Christian College

A large representation of the faculty and students attended the Flonzaley Quartet concert at the University on Wednesday evening.

Mr. Frank Parker, head of the Vocal department, sang a group of songs at the open meeting of the Tuesday Club.

Thursday evening a short after dinner recital was given by students in the School of Expression in the college auditorium.

Miss Allie Nash, of Kaufman, Tex., has return to college after a complete recovery from an operation for appendicitis.

Miss Alma Lawhead of Cainsville, Mo., has registered for a full course in music for the second semester.

Miss Myrtle Hoffman of Rocky Ford, Colo., has entered the college for regular work in the school of Arts and Science.

A short informal reception was given the Lindenwood team at the close of the game on Saturday night in the college gymnasium. The members of Eta Upsilon Gamma entertained at the bungalow on Saturday night for the Lindenwood and Christian basketball teams and for all officials who were connected with the game. A delightful luncheon was served.

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offers the following courses for which the University grants credits. To insure credit the student must have his Bible College Enrollment Card countersigned by Dean Jones, and also by the Chairman of the Department concerned.

1. Fundamental Moral and Religious Values (Philosophy) 2 hrs. (For Freshmen only)
Sec. 1. Tues, Thurs, 8 A. M. Sec. 2. Wed, Fri, 11 A. M.
2. Bible as Literature 2 hrs (5th in English).
Sec. 1. Wed, Fri, 11 A. M. Sec. 2. Wed, Fri, 12 M.
3. Hebrew History 3 hrs. (122b in History).
Sec. 1. Tues, Thurs, Sat 9 A. M.
4. Christian Ethics 2 hrs. (122b in Philosophy).
Sec. 1. Wed, Fri, 9 A. M. Sec. 2. Tues, Thurs, 12 M.
5. Comparative Religions 2 hrs. (121b in Philosophy).
Sec. 1. Tues, Thurs, 8 A. M. Sec. 2. Tues, Thurs, 11 A. M.
6. Social Teachings of Jesus 2 hrs. (113b in Sociology).
Sec. 1. Wed, Fri, 8 A. M. Sec. 2. Wed, Fri, 10 A. M.
7. Introduction to Religious Education (159b in Education) 2 hrs. (Credited only in the School of Education). Hours to be arranged.

Hebrew Language will not be offered this Semester.

For further information call for Bible College Catalogue, or see G. D. EDWARDS, Acting Dean.