

**U. OF O. ARTS COURSE EXPECTS TO ENROLL 800 THIS AUTUMN**

Registration Begins Tuesday; Freshman Class Is Likely to Number 250 to 300.

(Special to The Journal.) University of Oregon, Eugene, Or., Sept. 6.—Eight hundred pair of student eyes are turned toward Eugene, with one week of the summer vacation remaining. The university of Oregon opens its forty-eighth session on Tuesday, September 16. A heavy enrollment is expected by the registrar, who has received an unusually large number of applications. Word from alumni and members of the university faculty from all parts of the state indicate a freshman class that is expected to number between 250 and 300 and the total enrollment of the students in the college of literature, science and arts is expected to reach 800. Some eastern Oregon towns from which not over one student has been enrolled in the past, are sending from three to eight students. Southern and central Oregon are also sending a larger representation than usual.

Twelve added instructors strengthen the university teaching staff this year. Temporary class rooms in frame buildings have been erected to handle the increased attendance. The new instructors already named are as follows:

Extension department—Dr. Clifton Fremont Dodge of Clark University; Professor D. C. Sowers of the New York Bureau of Municipal Research. Physics department—A. E. Caswell, University of Idaho.

Biology department—Dr. Charles Edmonson.

Scandinavian languages—Dr. Edward Thornstener.

Sanitary and Hydraulic Engineering—W. F. Allison.

Journalism—Colin V. Dymont of Portland.

Mathematics—Dr. R. M. Winger of the University of Illinois.

Education—F. L. Steison.

Music department—R. H. Lyman of Grinnell college, Iowa.

Law and Latin—Yet to be selected.

Preparations are being made to receive the incoming students in Eugene. The registrar has just completed a survey of the city to ascertain the available rooms and boarding places. These will be published and distributed among the new students.

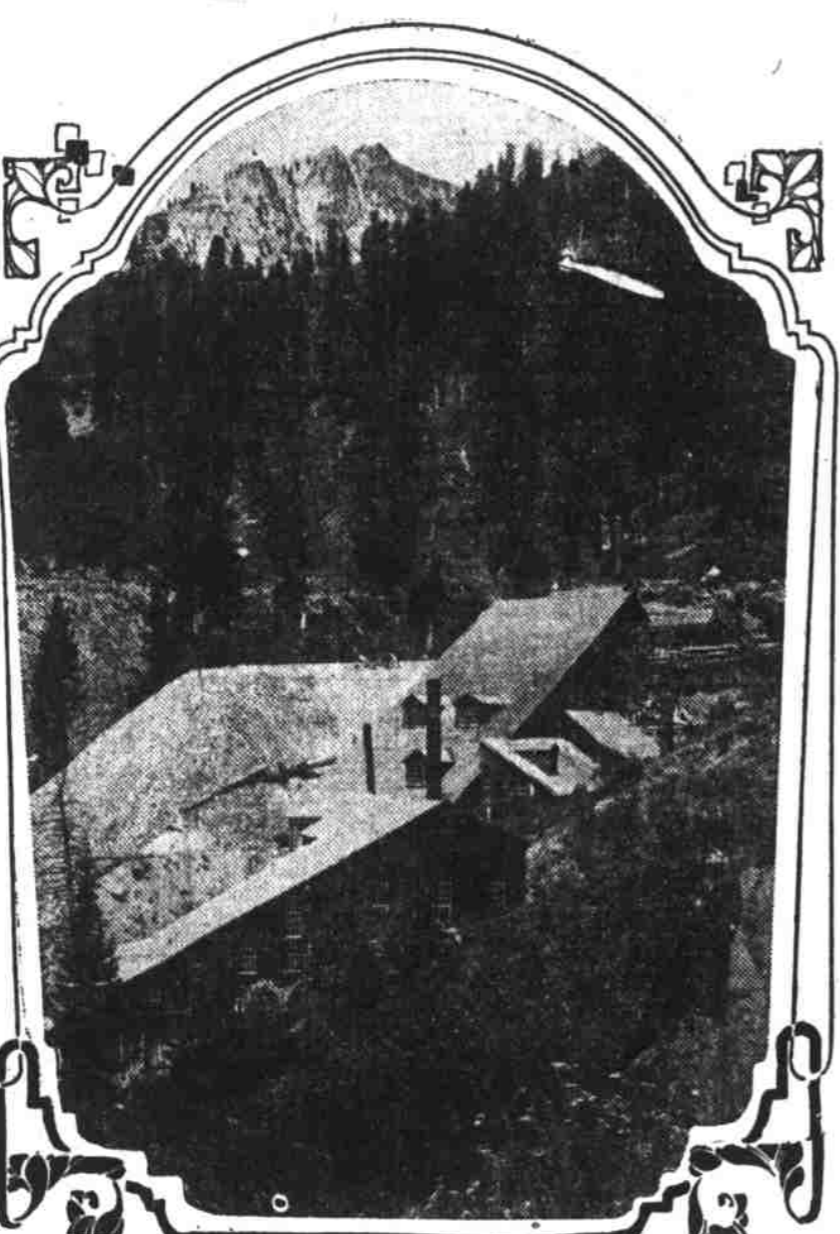
The Y. M. C. A. and the Y. W. C. A. will maintain temporary headquarters at the railroad stations to receive the new students and to assist them to locate themselves. The rush will be over by Tuesday.

During the summer all buildings on the campus have been cleaned and renovated. Villard hall has been refurnished on the inside. Two new temporary frame buildings have been erected, one of which will contain offices and the other offices and class rooms. These have been made necessary until the voters release the special building appropriation from the referendum action. Class rooms were overcrowded last year and, with the larger registration expected next week, additional room is essential. A swimming tank is under construction in the men's gymnasium.

The football field has been placed in condition, and the first practice has been called for Monday, September 15, by which time all football men are expected back.

Three new departments have been created since college closed. One of these is a chair of Scandinavian languages, another is a municipal science bureau and a third, is a preparatory law course, making political science a separate chair.

**NEW MILLING METHODS USED IN OREGON MINES**



The Union-Companion mine and mill in the cornucopia district.

Baker, Or., Sept. 6.—One of the principal factors in approximate doubling of the gold production of the state for 1913 is the adoption of the most modern milling practices by some of the principal mine companies, among which are the Cornucopia mines. This property is located in the Granite mountains at the head of Pine valley, in Baker county, about 60 miles east of Baker, and has been practically a steady producer almost since the date of its discovery in 1885.

The Cornucopia Mines company has 49 mining claims in the Cornucopia mining district. Twenty of these are patented claims. They were formerly owned by John E. Searies of New York city, but were purchased about one year ago by a small group of New York capitalists, and the new company immediately began the erection and installation of a new mill along the lines of the latest gold milling practice.

The Union-Companion are the principal mines being worked by the company. The vein on these claims is a quartz vein, following a basalt dike, which traverses the Granite mountains, and varies from 8 to 14 feet in width and runs from 110 to 1200 feet in value.

The mine is developed by several tunnels at various levels, and by a shaft sunk 550 feet below the lower tunnel about 1200 feet back from the tunnel entrance.

The underground workings total nearly four miles in length, and have developed sufficient ore to keep the mill in continuous operation for several years to come. The character of the ore is quartz, carrying the gold and silver in intimate with iron sulphides and containing little or no free gold.

In operating under the old conditions it was necessary to concentrate the iron sulphides and transport them by freight team some 60 miles over the mountains to Baker, from whence they were shipped by rail to the smelter. The heavy toll for transportation charges proved a very great expense in operation, and to eliminate this, a new mill to extract the gold and silver and turn them into bullion at the property has been erected.

The new mill has now been in operation since the first of the year, and at an average monthly production of between \$25,000 and \$30,000. The process is a new adaptation of the cyanide process, called the "total sliming process," and is the same as has been installed in the new big mills of Colorado and Nevada.

**How Ore Is Crushed.**

The ore is first run through the big 30 stamps as it comes from the mines. These stamps have a capacity of about 100 tons daily, and the balance of the mill is erected to care for the ore as it comes from the stamps. The crushing is done in a weak solution of cyanide of sodium, and the ore is reduced in the distery of stamps to about the size of small bird shot. It is then conveyed to two tube mills. These are large steel cylinders five feet in diameter and 22 feet long, about half filled with the hardest flint pebbles imported from Denmark. These cylinders, rapidly revolving, grind the ore to an impalpable powder between the flint pebbles, which roll around the inside.

When the ore is reduced to powder it is washed with solution into 20 feet thickening tanks where the excess solution is moved and the ore, now about the consistency of cream, is drawn off into the pachuca agitating tanks. There are three of these tanks, huge affairs, 14 feet in diameter and 35 feet high, and during its course through these tanks the pulp is kept quite thorough agitated by a jet of compressed air admitted through the bottom of each tank. This has the effect of thoroughly dissolving the gold and silver by bringing the oxygen of the air into close contact with every particle of ore while in the presence of cyanide.

After being agitated for a sufficient time the pulp is drawn off to the filters, where the cyanide carrying the gold and silver solution is completely separated from the ore by the filters. These filters are ingenious devices in the shape of large wide-faced wheels or drums revolving in round bottom tanks, so that a portion of the lower face of the drum is kept submerged in the pulp at all times. By exhausting the air from behind the canvas face of the drum through the hub and spokes of the wheels, a layer of ore is caused to adhere to the canvas face and the drum slowly revolves is brought up into the air, where the solution is almost entirely sucked through the cake of ore. Before being discharged from the filter the cake is twice washed with water, which is also sucked through the cake and thus replaces the cyanide solution completely.

From the filters, the pulp, or tailings as it is now called, is carried from the mill by a stream of water and caught and retained in a talling dam, to keep it from being washed into the streams, while the cyanide solution, with its gold and silver contents, is pumped through a machine which adds a small quantity of powdered zinc to the solution. The zinc acts as the precipitating agent and precipitates the gold and silver in the form of a black slime. This slime is filtered out by pumping the solution through a series of canvas leaves, and the cyanide solution, now robbed of its valuable contents, is returned to the head of the mill to be used over again. Its circuit is continuous.

**Gold Bars Cast Weekly.**

About once a week the precipitating filters are opened, the black slime is scraped from the canvas, roasted, mixed with the proper fluxes, melted into bullion and cast into bars, and these are sent to the United States mint. This company was probably the first on record to utilize the parcel post for the purpose of shipping gold.

The property has been under the management of Robert M. Betts of Spokane for the past four years.

**INJUNCTION DELAYS ASTORIA BULKHEAD, SEAWALL AND FILL**

Opponents Attack Initiative Title as Misleading and Say Voters Were Deceived.

(Special to The Journal.) Astoria, Or., Sept. 6.—Restraining the sanitary reclamation commission and the city of Astoria from issuing \$300,000 bonds and levying a 5 mill tax on assessable property, Circuit Judge Eakin yesterday granted a preliminary injunction on complaint of G. C. Flavel. This bond issue is for the purpose of constructing bulkhead and retaining walls along the waterfront of Astoria, and for filling in the tidelands, necessitating a change of grade and the raising of practically all the modern business buildings with the exception of the Scandinavian-American bank.

The commission was created by amendment to the city charter, proposed by initiative petition, which carried by a vote of 1304 for and 574 against at an election held December 11, 1912.

The complaint alleges 'false and deceptive title on the ballot, deliberately planned to deceive voters; that the measure was never legally incorporated, never was a law or part of the charter; that voters thought they were voting for a measure authorizing the commission to construct a bulkhead or sea wall without regard to making fills in any part of the city; and that inasmuch as the title is false and fraudulent the commission has no authority to construct bulkheads or spend public money for any purpose whatsoever.

The territory within the city limits is estimated at six square miles, and the tide flats at one square mile, necessitating six miles of sea wall.

G. C. Fulton is attorney for the plaintiff. A. M. Smith will probably represent the commission and the city. Circuit court convenes September 15.

G. C. Flavel is a heavy property owner in this city.

A complaint was also filed for the purpose of prohibiting the reclamation commission from spending money for any purpose whatever. This was evidently intended as a part of the charter, further procedure looking to the construction of the sea wall.

On December 12, 1912, the measure was put before the voters by an initiative petition. Commissioners elected were A. M. Kinney, W. C. Logan, W. E. Schimpff, W. P. O'Brien, Norris Staples, Martin Francisovich, E. Hauke, Andrew Birch and Jens H. Hansen. One thousand three hundred and four votes were cast in favor of the measure and 574 against, and the amendment was accordingly incorporated as a part of the city charter.

Probably \$6000 has already been expended by the commission in the work thus far, and warrants have been issued.

**RATTLESNAKES HOLD NO FEAR FOR THIS MAIDEN**



Miss Emma Lenox.

(Special to The Journal.) Roseburg, Or., Sept. 6.—Most women will jump on a chair when they see a mouse, but Miss Eva Lenox, daughter of County Clerk E. H. Lenox, is different from her sisters in this respect. A few days ago she saw a rattlesnake four feet long and ready to strike, and she thought she would like to have a picture of it. She adjusted her kodak, walked up to within six feet of the defiant reptile and took its picture.

This occurred during a recent visit with friends near Dillard. There is a rattlesnake den in a rocky hill in that vicinity, and from 30 to 40 of the reptiles are killed in that neighborhood every year. This season, so far the record is 39. The rattler photographed by Miss Lenox was a monster for this country, and was of the yellow spotted species, which is considered even more venomous than those with the dark-brown or black spots.

**NORMAL 7 POUND BABE IS BORN TO MIDGET BY CAESARIAN OPERATION**

Seattle, Wash., Sept. 6.—A baby was born today to Sarah Littlefinger, the midget wife of Major Littlefinger, at Providence hospital.

The Caesarian operation, performed by Dr. J. Tate Mason and several other physicians, was highly successful, and the little mother is doing well.

The mother is three feet three inches tall. The father, whose name in private life is Huzza, is one inch taller.

The baby, however, will be of normal size. Its weight had not been taken at 3 o'clock this afternoon, but the nurse reports it to be about seven pounds.

**FOREST GROVE STICKS TO OWN LIGHTING PLANT**

Tries W.-O. System 20 Days, and Though Satisfied, Makes No Change.

Forest Grove, Or., Sept. 6.—After a 20 days' trial of lights furnished the city free by the Washington-Oregon corporation, the city council has decided that the present method of furnishing electric lights to the city is the better plan, therefore the municipal light plant will be retained and operated by Forest Grove. The private corporation furnishes excellent service, and its rates are considered fair, but the city is not only furnishing a quality of light that is entirely satisfactory, but is making money from the plant, and the general sentiment among the citizens is that the plant be retained and operated by the city.

**Peacock Mill Ships Much Grain.**

Freewater, Or., Sept. 6.—The Peacock Mill company is in the height of a very busy season, from 10 to 15 cars being shipped out every day to Portland and from there to Seattle and the orient. Twelve men are kept busy and besides this from 1500 to 2000 sacks of grain are being stored away in the warehouses every day.

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**OREGON WATER IS NOT FOR CALIFORNIA LAND**

Unless Bear State Returns Favor, Irrigation Fluid Is to Remain Home.

(Salem Bureau of The Journal.) Salem, Or., Sept. 6.—Stating that California has on its statute books a law prohibiting the appropriation of water within its boundary lines for the irrigation of land in another state, and that he does not feel like allowing water to be appropriated in this state for the irrigation of land in California, State Engineer Lewis has directed a letter to W. C. Dalton, who is promoting a project near the boundary line of Oregon and California, asking if it is not possible to eliminate the California lands from his project.

Feeling that water should not be appropriated in this state to irrigate lands in other states, unless they reciprocate, the state engineer prevailed upon the last legislature to give him the right to decline all permits for the appropriation of Oregon water, if the lands to be irrigated happened to be situated outside the boundaries.

**MISS WINONA OGDEN BECOMES MRS. B. RAMSEY**

Forest Grove, Or., Sept. 6.—A pretty wedding occurred in this city Wednesday at the home of Mr. and Mrs. H. G. Ogden, when their daughter, Miss Winona Ogden, became the wife of Mr. Bert Ramsey, the ceremony being performed by Rev. E. V. Stivers, of Minnville. Miss Hazel Stockman was bridesmaid, and Mr. Edward P. Smith attended the groom. Mrs. Ramsey is one of the popular young ladies of this city, where she has long made her home. Mr. Ramsey is a young business man of Portland, where he and Mrs. Ramsey will make their future home.

**RUSH SEASON OVER; TRAINS ARE WITHDRAWN**

(Special to The Journal.) Albany, Or., Sept. 6.—Notice of the withdrawal of trains number 21 and 22 on the Corvallis & Eastern, after Monday, September 8, has been given. The trains have been on the regular run between Albany and Yaquina Bay during the summer months. Train No. 21 leaves Yaquina at 1:30 p. m. and No. 22 leaves Albany at 7:30 a. m. Sunday excursion trains leaving here at 7:30 and Newport at 5:30 will be continued until further notice.

**VALLEY HOPS WERE BENEFITED BY RAIN**

(Salem Bureau of The Journal.) Salem, Or., Sept. 6.—According to hop men of the harvesting of the hop crop in the valley will practically be completed within the next two weeks. They further say that the rain instead of injuring the hops has benefited them by filling them out and giving them a better color. Generally the picking is cleaner this season, they say.

**BLUE GROUSE SEASON OPENS SEPTEMBER 15**

(Special to The Journal.) Vancouver, Wash., Sept. 6.—The open season for blue grouse will begin September 15 and will close December 1. This is the only variety of upland birds which may be killed lawfully before October 1, the season for the other upland birds opening on that date. Swan are protected at all times, and the killing of Hungarian partridges before October 1, 1913, is a violation of the law.

The law, in regard to killing of game birds, provides that no person shall kill more than five birds in any one day with the exception of quail, on which the limit is 10, including quail, the limit is 10 upland birds, and no person shall have in his possession during any week more than 25 birds of all descriptions. Ducks, geese, swans, and other waterfowl may be killed lawfully between October 1 and February 1 of the following year, the limit being 20 of all varieties in one week. The sale of game birds is prohibited at all times.

The county game commission has appointed several deputy wardens in different sections of the county to see that the game laws are properly enforced, and this will enable the commission to keep a closer watch on hunters than ever before.

County licenses may be purchased for \$1, state licenses for \$5, non-resident county licenses for \$2 and non-resident state licenses for \$10. These licenses permit both hunting and fishing.

**MOTHER OF THE DALLES MAYOR DIES IN EAST**

The Dalles, Or., Sept. 6.—Mayor J. E. Anderson, who was called to Council Bluffs, Iowa, last Saturday on account of the illness of his mother, has sent word announcing the death of Mrs. Anderson.

**DISHWASHER'S TRUNK SUSPICIOUSLY LADEN**

The Dalles, Or., Sept. 6.—John Wilson, employed for a short time as a dishwasher in the Hotel Albert, is under arrest here charged with larceny of a suitcase in a building. He is being held to the grand jury. Wilson, it is alleged, took a suitcase belonging to one of the guests of the hotel in his room on Third street and secreted it in a trunk. He claims that he bought the suitcase of a Jap employe of the hotel.

In Wilson's trunk and a suitcase that belonged to him was found clothing and some alterations which the police think he had stolen.

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# Pendleton Round-Up

The demand for reservations for the Pendleton Round-Up via The Journal's specials has been so great that both the O.-W. R. & N. and North Bank roads have added additional equipment and will be able to take care of a few more people.

TICKETS SHOULD BE PURCHASED AT ONCE.

**TOTAL COST \$25.00.** This includes railroad fare, Pullman accommodations, meals, admission to the grand stand, etc.

Trains leave Portland Thursday night, arriving in Pendleton Friday morning, and start on the homeward journey at midnight Saturday, arriving in Portland Sunday morning at 8 o'clock.