PATRONIZING of YOUR COMMUNITY STORES AND INDUSTRIES MAKES PAYROLLS

How great this community may grow, how prosperous and complete it may become, depends upon us---our willingness and our desire to work together---

ONE for ALL and ALL for ONE

SALEM'S BIG PAPER MILL IS DOUBLING ITS CAPACITY AND ADDING VERY MATERIALLY TO ITS EFFICIENCY IN MANY WAYS: LARGEST OF ITS KIND IN ALL THIS SECTON

The Monthly Payroll Will Be Over Fifty Thousand Dollars a Month When the Improvements Under Way Are All Completed, and Its Forces Directly Employed Will Be About Five Hundred, With About as Many More Engaged in Getting Out and Transporting Raw Materials and in Other Ways Directly Dependent Upon Its Operations

connection with Salem's paper busy half an average life time. mill for the annual Slogan numher last year was the fact that red used successfully, on a commercial scale, in amaking high grade

And this is the only paper mill kraft papers, or a combination of the sulphite and soda processes.

C. F. Beyerl, manager, and J. B. Wilt, suiphite superintendent, process whereby this wood may cheaply, by the sulphite process, consequence an almost unlimited quantity of pulp wood which was formerly considered unfit for paper, due to its resinous nature, is now available to keep the mill running indefinitely after all the other woods have been exhausted; though it is little used now, owing to a plentiful supply of white fir and hemlock, and larch when it

Coming to Artificial Silk

The Salem mill produces the highest grade papers and bleached sulphite on this coast. Bleached sulphite is the raw material of artificial silk, and since hemp, jute and plant fibers of all kinds are high in price, the world's fabmakers are turning rapidly to he use of wood pulp fibers, and the Oregon Pulp and Paper company mill, under the progressive leadership of its efficient manager. C. F. Beverl, is alert to keep pace with the times: though no stock is yet supplied to the artificial silk makers. This fabris goes under the name of "rayon," used for women's garments.

Wonders Being Worked

Wonders are being worked, miracles performed, hourly at the Salem paper mill of the Oregon Pulp and Paper company-For cord wood from our farms and logs from our forests are being taken in at one end of this. plant and turned out at the other end in the form of paper for the

Beautiful paper, embossed glassines in a wide range of colors for candy packages and other uses, grease proof papers for butter and bacon wrappers, wax papers, bond and ledgers papers, and papers for various special uses.

This process is going on in the midst of a teeming population; and not one person in a hundred realizes the magic of it all; the study and experimentation that have been carried on to make all this possible. Such a modern paper mill is a most interesting exhibit of the accomplishments of present day chemistry and mechanical ingenuity. An inspection of this institution must prove of interest to any one, and the stu-

Fall hats and a new line of felts, \$3.95 to \$4.95, and the exhats at the Salem Variety Store, 295 North Commercial.

Parker & Co., 444 S. Commercial. Don't fail to see Parker about repairing your car. Expert mechanics at your service.

work guaranteed. What do you need in the hardware line? Mechanics' tools, household goods and cutlery, anything

The outstanding news item in various processes to keep him be, to double its capacity through-

Some New Things In the making of the bond and

pers, are being made in considerhad succeeded in developing a able quantities now, and shipped through the Panama canal as far

> as New York and Philadelphia. There is an experimental plant at this mill. Experiments are being and will be carried on constantly. Whenever there is any thing new in the manufacturing of | But the paper mill goes right on high grade specialty papers, the Salem paper mill people will "try it once," and if it is worth adopting they will adopt it.

> range of specialties must have a it started, is the chief electrician. great variety of cutters and fold- He has a domain of his own, in ers and appliances generally. In a room at the west end of the this respect, this mill has all along | machine room. It is the control been kept strictly up to date.

The Sulphite Plant

The Salem paper mill consists plant and the paper making plant. The superentendent of the sulphite mill is J. R. Wilt. It would be impossible to give the general reader the full details of the wonderfully intricate and interesting processes employed in sulphite in operation six years. The first on the subject), and many of the processes could not be grasped man was printed from paper made chemistry such as only few men of the Salem paper mill.

The Sulphite Mill Proper fir in eight hours. The equip- ment. ment used in preparing the wood is as follows: One electric log hoist, two 84 inch cut-off saws; two vertical type steam splitters; four hand barkers; one 88 inch chipper: two rotary chip screens. The wood room also has cutting and stacking capacity for 60 cords of wood in eight hours. This wood is used as a reserve. The monthly wood consumption of this

plant has been approximately 3,000 cords, or 1,714,000 board feet per month, It will be doubled with the increased capaci-

Acid Plant The acid plant will be practically new, as mentioned above. The old towers will be discarded. There will be two large acid storagé plants 20 feet in diameter, 30 feet high.

There have already been installed 15 new Valley Iron Works flat screens; to be used when the clusive Priscilla Dean children's new improvements are completed; will be used for rescreening the The fact is, the whole great plant

Walter H. Zosel, automobile tires, tubes and accessories. Vulcanizing that holds. High quality, superior service. A trial makes a customer. 198 S. Com'l.

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dent* could find enough in its is being practically rebuilt; must

letter and envelope papers of the side of the paper mill, used on highest grades, which is a new June 25 of last year 6,132,200 galline in this institution, and which lons of water. That was the biggives great promise, a small per- gest day. The average for the centage of balm wood or cotton- year was 2,822,490 gallons a day. wood is being used. Little of this

The Salem paper mill will, as been done, excepting with soda or | wood had been used here up to a | stated above, now have a capacity of 16,000,000 gallons of water a day, and will use most of it, most both the inside and outside wrap- days. That is a lot of water. The substance that goes into the paper making machines is 99 7-10 water -and it comes out at the other end finished paper.

And a Lot of Juice

about a third of the "peak load" of electricity used in all Salem. using electric power 24 hours a day, and it therefore uses almost as much as all the rest of Salem in each month. F. M. Peyton, who A mill making such a wide has been with the mill ever since carries a 6.000 horse power connected load. There will be over 300 motors to look after when the whole constructed plant is going. There are connections to look after now for 295 motors; 75 of

Six Years Old Now

The Salem paper mill has been making. It would take too much | car of paper for the market was space (whole books are published shipped from this plant October 1, 1920. On that date, The Stateswithout a thorough knowledge of | at this mill-from a trial run of wood pulp secured from a mill in each country posses. But the using ground pulp. News print following paragraphs will give a is made from ground wood pulp. general idea of the sulphite plant | The sulphite process is used exclusively by the Salem mill.

No single day has passed in all "The wood room has a capacity the six years without some imof 60,000 feet of hemlock or white provement or plan for improve-

> Paper Making Process The wood is delivered to the mill in the shape of cord wood or slabs and the bark removed by a machine known as a barker. It is then reduced to chips. This is accomplished by machines called chippers. The blocks of wood are convoyed direct from the barkers or from the storage pile, as the

case may be. The chips are cleaned of sawdust and dirt and conveyed to the top of a hundred-foot building known as a digester house. At the top of this building provision is made to store 150 cords of chips from which the digesters are fill-

These digesters hold 24 cor of wood at one charge or "cool

as it is called. The chips are dropped in at t top of the digester, and, when is filled, sulphurous acid to t extent of about 25,000 gallons run in, a cover clamped on, as the mass is raised to a temper bleached pulp; to make it clean. ture of 300 degrees or more as a steam pressure of 70 pounds maintained for from 10 to 20 hours, according to the quality of the sulphite required.

This cook is then released from the digester under pressure, into a large wooden vat or blow pit. The action of the sulphurous acid on the wood separates the fiber and bleaches the color, so that after it is washed in the blow pits t is a white, cottony substance. From the blow pits it is pumped to screens and to beaters, where it is ground and refined until it is in a fit state to go to the paper machine.

This machine takes the stock in a liquid state and it flows onto an endless wire mesh cloth to which a shake is imparted so that the stock is eventually distributed across the face of the wire and at the same time a large part of the water drops through the wire

and is gotten rid of. The sheet is transferred from the wire to the felts and is carried between the rolls of metal or hard rubber and from these press rolls is taken to the dryers.

These dryers are large hollow iron cylinders around which the paper travels in contact with the face of the dryers.

Steam is admitted to the interior of the dryers and the paper

run thoroughly dry and is sub-jected to a calandering to give it a firm texture and finish.

In the case of glassine paper a further calandering is necessary. In making the sulphurous acid with which the wood is cooked, limerock is placed in towers nearby a hundred feet high and water is allowed to percolate down through the limerock. Sulphur is burned in a rotary burner and the gas after being cooled thoroughly in submerged pipes passes through a fan which forces it through the three towers one after the other.

The sulphur gas is absorbed by the lime water which is pumped from the bottom of one tower to the top of the other. When this acid has the proper strength it is pumped to storage tanks from which it is run to the digesters

The mill started operation with one paper machine, but a second machine was added the first year, and a third, the largest of all, in

The main machine and beater room is the most substantial and attractive building of the kind on

Miscellaneous Items here are water and air and grease

The fiber produced by the sulphite process is pure cellulosethe same as celluloid combs are grounds. made of. The sulphite process takes the lignin from the wood; about 55 per cent of the wood on the average being lignin, which is waste, leaving on the average

Much of the preferred stock of the company is owned by people who live in and around Salem, to whom 8 per cent annual dividend checks are sent monthly.

The Personnel company is largely under local 355 Chemeketa. management. Its officers are: F. W. Leadbetter, president;

D. Andreae, secretary. Directors. including these four officers, John | walk. Malcom's Tire Shop. H. McNary, E. T. Barnes, W. E. Keyes, Truman Collins, L. L. Leadbetter, George Putman, C. F. Beyerl, and Dr. M. C. Findley. Superintendent of the paper

Thomas B. Armstrong. Superintendent of the sulphite mill, J. B. Wilt. Superintendent of the finishing room, W. A. Shaffer. Chief electrician, F. M. Peymaster mechanic, F. L. Odom; chemist, Edward P. Wood.

Office manager, H. E. Ingrey; auditor, W. P. Donnelly; time keeper, W. J. Wilt; sales department, K. W. Heinlein, assisted by Ralph Olson. Traffic manager, F. W. Karr. "General office force: G. Halseth, Wayne Shumaker Mrs. Ipha Knox, Miss Ruth Peyton and Miss Bessie Taylor.

C. F. Beyerl, the general manager, has been on the job for five years, and in all that time he has dreamed the dream of the complete mill that is coming into being now-the largest and the best of its kind west of the Rocky mountains, and one of the largest of its class in the whole coun-

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*REMEDY NU GUUU

OAC Booth at the State Fair Grounds Will Show the Oregon Farmers How

The farming public scored a ictory over a class of imposters when a so-called "cure" for incently exposed in court, reports

largely of brown sugar and bran, control of that dread disease of wide publicity given to the work of painstaking scientists, who have no thought of personal gain. and who have conclusively proved that some of these so-called ers still waste money buying quack stock remedies. The Oregon Agricultural College experiment station has been working for years on the best system of The glassine papers furned out control of infectious abortion. This will be a part of the experiment station exhibit in a dairy and veterinary booth near the

> The seriousness of this disease may be recognized when it is fertility, better waterholding caknown that it has caused the loss pacity of the soil, more vigorous of the last 12 calves cropped in one pure bred herd. The experi- yields, are listed as advantages by ment station wil demonstrate its C. L. Long, extension horticulturmethod at the fair and show farmers how to avoid losses from this

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Dr. B. L. Steeves, vice president; | ble. An ounce of prevention is | fit and profit of both Wm. F. Walton, treasurer; Frank worth a pound of cure. Buy your spare now, save yourself a rainy

> Bonesteele Motor Co., 474 S. Com'l., has the Dodge automobile for you. All steel body. Lasts a lifetime. Ask Dodge owners. They will tell you.

FROM THE COLLEGE

Now Is the Time to Make Selections of Seed Corn and Potatoes, Etc.

(Following are excerpts from a prrent news bulletin of the department of industrial journalism of the Oregon Agricultural college:)

Now is the time to make hill selections of potatoes for next year's seed. Get a bunch of lath or other small stakes. Go through the fields and select vigorous healthy plants that are not near to diseased ones. Avoid potatoes showng yellowing leaves, badly wrinkled or ruffled leaves, or leaves that are discolored or mottled in any way. Stake dark green plants with three to five or more vigorcus stalks, not spindly, knobby at leaf stems, or excessively tall. Leaves should be rather smooth,

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even, dark green and free from

Corn ear selecting time will soon be here. Select good ears erect stalks, vigorous, healthy and early. Drooping ears on long shanks are good for western Oregon. Save no ears from down stalks, weak or suckering plants, or from those with striped or abnormal leaves.

that seem at times almost able to stroyed by plowing the gardens face clear except for the late fall \$21,50, Nov. \$22,50. and early winter stuff. Then in ers before the crops are up.

Rye grass and hairy vetch have been profitable seed crops in west ern Oregon for two or three years.

Cover crops are said by certain orchard growers of Oregon to be the biggest single factor in good yields. Crumbly soil, increased trees, and better fruit and higher ist of the college extension service.

The Dixie Bakery leads on high plass breads, pies, cookies and fancy baked supplies of every kind. Best by test. Ask old customers. 439 Court St.

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real estate, 344 State. Farms and city property. They bring buyer Don't be held back by tire trou- and seller together, for the bene-For students going away to

school we are showing a large selection of traveling bags, trunks, hat boxes and fitted cases. Discount prices to students this Hamilton's. month.

The Pontiac Six is outsellingbecause it is Built to Outlast. It displays unfailing sturdiness and dependability. See it on display at Vick Bros.

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General Markets

PORTLAND, Ore., Sept. 22.—(AP)— Dairy exchanges net prices: Butter ex-tras 41c; standards, 40 %c; prime firsts 38 %c: firsts 35 %c. Eggs extres 41c: firsts 39e: pullets

LIVESTOCK Cattle steady; receipts, cattle 230; calves 25. Hogs steady; receipts 185. Sheep steady, receipts 260.

PORTLAND, Ore., Sept. 22.—(AP)— Wheat: BBB hard white, Sept., Oct. Oct., Nov. \$1.32 /2; hard winter, Sept. Oct., Nov. \$1.32; northern spring Sept.

Oct., Nov. \$1.31; western red. Sept. Oct.

Barley, No. 2, 45 pound, BW Sept. and Nov. \$27: Oct. \$27,50. Corn. No. 2, EY shipment, Sept., Oct. \$37: Nov. \$36.

and early winter stuff. Then in the spring the ground is lightly cultivated and spread with poison tran mash to get the early starters before the crops are up.

HAY

PORTLAND, One., Sept. 22.—(AP)—
Buying prices: Eastern Oregon, timothy, \$20@ 22: do valley \$17@17.50; cheat \$13; ulfalfa \$17.50@18: oat hay \$13; oat and vetch \$14.50@15: straw \$7@ 25.00 to \$1.50.00 to per ton. Selling prices \$2 a ton

NEW YORK, Sept. 22.—(AP)—Evaporated apples steady; prunes fain trade; apricots and peaches quiet; hops steady; state (1926) 45@60c.

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tions of prompt settlement of the British coal strike did much today to make wheat prices average lower. After frequent irregular changes, the wheat market here closed unsettled, half cent off to 3-8c up, norn at 1-8c to ½c gain, oats unchanged to 3-8c higher and provisions

unchanged to 42c advance.

ter class of French combing is being quoted higher on the wool market, up to \$1.08 is being asked for some of the choicest offerings and in a few cases the asking price has been paid for limited quantities. Average lots of good French combing fine territory wool brings \$1.05 quite readily. There is still considerable demand for fine top making wool at around \$1.00 and occasionally small quantities can be picked up at that figquantities can be picked up at that fig-

The Opera House Drug Store. Service, quality, low prices, friendship give increasing patronage. Old customers advise friends to trade here. High and Court. (*)

L. A. Scheelar Auto Wrecking Co., oldest in the Willamette val-New and used parts and equipment. Low prices and quality service here. 1085 N. Com'l. (*)

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y what Chiropractic or any other system WILL do in your case. We know what it HAS done in similar cases and if you give it a fair and impartial trial, we know what it MAY do. This is you chance of getting well. If you are wise, you will jump at it. The Health method that locates and adjusts the CAUSE of disease instead of fooling with the effect is bound to be O. K. Chiropractic Adjustments given according to a Neurocalometer reading will do you good. Try them.

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