

WILL UTILIZE WASTE WOOD IN DISTILLATION

(By Ralph Casey)
EUGENE, Feb. 5. (Special).—So successful has been the process discovered and performed by Prof. O. F. Stafford, head of the University of Oregon chemistry department, for the utilization of waste wood in the production of charcoal and wood distillation products, that one of the two big corporations utilizing this method on a commercial scale will soon increase the capacity of its plant.

This company is the Tennessee Eastman Corporation, a subsidiary of the Eastman Kodak company. The plant, located at Kingsport, Tenn., has a capacity at present of 200 cords daily. This will be increased with the installation of new equipment, according to word that reached the campus this week.

Since Prof. Stafford and the firm of Boston engineers behind him demonstrated that his process was practicable commercially, leading the Eastman corporation to establish an industrial center at Kingsport, there has been a marked development at the Tennessee city. A village, consisting of thirty-one modern houses, was constructed for employees of the plant. The village will house 153 persons. Besides the construction of the village, a great deal of construction work has been undertaken in the plant itself. Prof. Stafford was in Kingsport during the entire period of the installation of the retorts and other equipment, and this work was undertaken under his directions and the tests were made under his supervision.

Solid, liquid and gaseous products obtained by the Stafford process are utilized. The Tennessee Eastman plant attaches its greatest importance to the acetone and alcohol which are used in the manufacture of photographic films, but the charcoal and the minor by-products find a ready market.

"The fine charcoal screened out of the graded material is utilized by moulding it into briquets," says an account of production under the Stafford process in a recent issue of the Kingsport Times. "The briquets go not under the name of 'charquets.' These charquets are utilized in a variety of ways. A considerable percentage of the output is burned in broilers in dining cars and hotel restaurants. The charquets have been found to be especially well adapted to the heating of fruit cans, for while they produce an intense heat they at the same time produce no odor of any kind which would destroy the flavor of the fruit. In fact, it is altogether likely that these charquets will revolutionize the business of fruit shipping."

Besides the acetone and wood alcohol obtained by the Stafford process, various wood oils are produced which are imbued with many commercial possibilities. A market has been found for them in connection with their value as preservatives of wood. Other wood oils are used in the manufacture of medicinal creosote, guaiacol and various disinfectants.

Until Prof. Stafford perfected his process it had not been commercially practicable to utilize small waste wood or mill waste in the carbonization and wood distillation industries. Prof. Stafford first began his work on the University campus in 1917 when he set up a semi-commercial scale apparatus. After he had demonstrated his process scientifically, he went east on leave of absence where a Boston firm of chemical engineers made a proposal to back further preliminary experiments. The outcome of these experiments was so successful that the Eastman company was interested.

Prof. Stafford spent the Christmas holiday period in Boston preparing specifications for other wood distillation developments.

HILLSBORO, Ore., Feb. 6.—Notwithstanding there have been two freezing periods throughout the winter, the grain in the hills is in excellent condition. The grain on higher ground, which often suffers the most in dry freezes, has stood the winter well and even though it thaws every day and freezes every night the wet condition of the earth is giving good protection.

Clean Kidneys By Drinking Lots of Water

Take Salts to Flush Kidneys if Bladder Bothers or Back Hurts

Eating too much rich food may produce kidney trouble in some form, says a well-known authority, because the acids created excite the kidneys. Then they become overworked, get sluggish, clog up and cause all sorts of distress, particularly backache and misery in the kidney region, rheumatic twinges, severe headache, acid stomach, constipation, torpid liver, sleeplessness, bladder and urinary irritation.

The moment your back hurts or kidneys aren't acting right, or if bladder bothers you, begin drinking lots of good water and also get about four ounces of Jad Salts from any good pharmacy; take a tablespoonful in a glass of water before breakfast for a few days and your kidneys may then act fine. This famous salt is made from the acid of grapes and lemon juice, combined with lithia, and has been used for years to flush clogged kidneys and stimulate them to activity; also to neutralize the acids in the system so that they no longer irritate, thus often relieving bladder disorders.

Jad Salts can not injure anyone; make a delightful effervescent lithia-water drink which millions of men and women take now and then to help keep the kidneys and urinary organs clean, thus often avoiding serious kidney disorders. By all means have your physician examine your kidneys at least twice a year.



A diamond ring was awarded to Virginia Fields Taylor (above) when judges in a beauty contest in her native Charleston (W. Va.) decided that she led all candidates.

Idaho College to Have Large Gymnasium Soon

According to the report of President Charles Westly Tenney, Gooding college will dedicate one of the finest, largest and lightest gymnasium rooms in southern Idaho early in this coming month.

This room, which is 46 to 71 feet in the clear, with a 20-foot ceiling, is located in the east end of the new men's dormitory. The flooring, which was furnished by C. P. Borden of Shoshone, at a great reduction in price, is first class maple and every one of the many large windows are protected by five steel bars and with netting in such a way that no basketball can harm them.

The Student association, under the leadership of President James Tomlin, the Gooding Chamber of Commerce and the school authorities are cooperating in pushing the work, the students alone having subscribed over \$1,300 in order that this part of the work might be completed in time for the second semester which is just opening for new students this week.

THOUSANDS HAVE KIDNEY TROUBLE AND NEVER SUSPECT IT

Applicants for Insurance Often Rejected.

Judging from reports from druggists who are constantly in direct touch with the public, there is one preparation that has been very successful in overcoming these conditions. The mild and healing influence of Dr. Kilmer's Swamp-Root is soon realized. It stands the highest for its remarkable record of success.

An examining physician for one of the prominent Life Insurance Companies, in an interview of the subject, made an astonishing statement that one reason why so many applicants for insurance are rejected is because kidney trouble is so common to the American people, and the large majority of those whose applications are declined do not even suspect that they have the disease. Dr. Kilmer's Swamp-Root is on sale at all drug stores in bottles of two sizes, medium and large.

However, if you wish first to test this great preparation send ten cents to Dr. Kilmer & Co., Binghamton, N. Y., for a sample bottle. When writing be sure and mention this paper.

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UNION LADY PASSES AWAY

UNION, Feb. 6.—Mrs. Samuel Bell died Friday afternoon after a protracted illness at her home in South Union. The funeral services were held Sunday afternoon at the Methodist church, in charge of Cook Brothers. Interment in the Union cemetery. Nora Ellen Coble was born in Dark county, Ohio, July 25, 1873. She was 49 years and seven months old at the time of her death. When a small child she came with her parents to Iowa, remaining there till her marriage to Samuel B. Bell October 26, 1893. They came to Union county, Oregon, in 1898. She was the mother of ten children, eight of whom survive: Hughie S., Otto M., Mrs. Emri Harris, Mrs. Lydia Snodgrass, Ollis S., Saretta E., Nettie J. and Harold S. She leaves besides her husband and children, an aged mother, Mrs. Coble of Imbler, seven sisters and one brother, to mourn her untimely death.

S. A. Pepper, Wilbur Rour, Dale Spray, Thurston Lay, Hugh Cole, Glenn Marr, Aubrey Exter, L. Gaulke and Donald Beth were registered at the Union hotel Friday. They hall from Joseph.

S. R. Barnes of Enterprise was registered at the Union hotel last Thursday.

Miss Sallahan, principal of the Perry school, brought her grade boys over Friday evening to play a game of basketball with the Gang, a class in the Methodist Sunday school. The visitors were defeated 10 to 0. A return game will be played at Perry in a few weeks.

Mrs. Martha Griffin, who was injured by a fall in her home in North Union last week, is still in a serious condition.

Members of the Rebecca degree team practiced at the hall Saturday evening. They will have a candidate at their meeting Wednesday evening.

The ladies of the Lucky Thirteen club were entertained by their husbands at the Union hotel last Thursday evening. A chicken dinner and dancing were in order.

J. Daniels and wife, La Grande people, were Union visitors last Saturday. They stopped at the Union hotel.

Amey Strong was over from La Grande Sunday to attend the funeral of Mrs. Samuel Bell.

Ed Dennison, who lives in Imbler, was a Union visitor Sunday. He was here to attend the funeral of his sister-in-law, Mrs. Bell.

Mr. and Mrs. P. M. Littler left for Spokane last Thursday evening. Mr. Littler goes as a delegate to the fruit convention and Mrs. Littler will make the trip with him. They expect to be back home Monday or Tuesday.

Mr. Reddy is displaying a black eye and bruised face as the result of a runaway with a team and wagon last Thursday. He was driving along a street in North Union when the wagon tongue became loose and fell, scaring the team. Mr. Reddy was thrown out on his head and shoulder and was unconscious for some time. He was assisted to a doctor and given aid and appears to have escaped with only minor injuries.

Among the Perrys who came over to root for the grade team last Friday were, Mr. and Mrs. Fred Robertson, Mr. and Mrs. Harry Hanses, Mr. and Mrs. William Watson, Mr. and Mrs. Smith, Mr. and Mrs. Claude Braden, Clark Allen, Mrs. Torvel Hansen, Mr. and Mrs. Bellamy and about fifteen boys and girls.

F. C. Grant and wife, S. Hayden, B. Hayden, John Hinton, Frank Millerton and wife, R. G. Miles, M. George and B. Neuberger were over from Baker last Saturday and registered at the Union hotel.

Two more scheduled basketball games were played here last Friday and Saturday evenings, Joseph high coming on Friday and Enterprise

the following evening. Friday's game was one of the fastest ever witnessed on the local floor and the fans who witnessed this contest all said they had seen a real basketball game. Joseph has on of the fastest high jumpers in the state and Union put up a spectacular brand of playing which kept the outcome in doubt until the last ten minutes during which the visitors spurted up and at the final horn took a lead of ten scores. Score at end of first half, 8-16; and final tally 19-23. Joseph outplayed Union in two ways, she passed better and had a little spicier footwork. The Saturday game was not quite so fast but ended with a thrill quite equal to the former contest. Union took an early lead and kept the front seat during the whole

game, but, owing to the facts that Morgan substituted during the last five minutes when he believed Enterprise could not overcome our lead and the visitors played a new man, they very nearly tied the score before the whistle blew. At the end of the first half Union had 14 to Enterprise's 8, and nearly all the 8 points were scored on fouls. Final score, Union 28 to Enterprise 26. Jamison of Baker refereed both games and although he put one of the local players on personal fouls during each game, players and fans were unanimous in praising his work. Both visiting teams were also well satisfied with the refereeing.

Don't knock. The tight-wad may be tight because he hasn't got the front seat during the whole

22 SIGN CONTRACT (By Associated Press) OREGON, Feb. 6.—Twenty-two baseball players who have been playing in the Oakland Tribune mid-winter league have signed contracts and will report to clubs in organized baseball next spring. The Tribune's mid-winter league, which was established in 1915, has developed several nationally known players.

Linn county will raise approximately \$100,000 by road work and road bonds through the 1923 tax levies. Work was started at Astoria Monday on the new home of the Morning Astorian. The structure will be of concrete.

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