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PRICE FIVE CENT

MAKE ALCOHOL FROM SAWDUST

New Process Makes Opening for Big Industry Here

The following article is reproduced from the "Technical Engineer," and is an interesting contribution on the subject of the distillation of alcohol from sawdust: Prof. Alexander Classen, of the technical college at Aix-la-Chapelle, Germany, has worked out a thoroughly practicable and commercially successful method of making alcohol from sawdust. It differs from the process formerly exploited, in that to convert the cellulose into glucose, gaseous sulphurous acid is utilized, instead of sulphuric acid, which it is difficult and costly to remove.

The first illustration shows the stills and apparatus used in the manufacture of the sulphurous acid, and also, in the rear, of the right, the "digester," in which the sawdust is treated. The digester is a revolving iron drum, lined with lead, which is necessary to resist the action of the acid. The charge of sawdust is put into this drum, and is mixed with one-third its weight of the acid solution. The drum is then revolved, its jacket being meanwhile filled with steam which rises the charge to a temperature of 295 deg. F. The heat causes the sulphurous acid gas to act on the cellulose of the sawdust glucose being formed. Three hours are required to complete the process, during which time the pressure of the expanding gases rises to over 100 pounds per square inch. The excess steam and sulphurous gas then pass together into absorbing tanks, and are thus saved to be used again later. The digester now no longer contains sawdust, but simply wood fiber and glucose or sugar together with a few other minor products formed by the action of the heat and acid as well as the pressure. The sugar, with the sawdust fiber, goes into exhaustion tanks; and the sugar, of which about

85 per cent is fermentable, is washed out. The water passes through these exhaustion tanks continuously, washing out the glucose completely, in this experimental plant ten vats being in use for this purpose, with a capacity of 36 gallons each. They are connected by valves and pipes in such a way that the contents of any one vat can be emptied into any other; and when the contents of one vat have been treated with ten washings, that vat is emptied and refilled.

A long ton of sawdust produces a solution containing about 500 pounds of sugar, of which about 75 or 80 per cent is fermentable, when treated with yeast, the remaining portion being non-fermentable.

The next process takes place in the "neutralizing tank," where the solution from the exhaustion vats is neutralized with calcium carbonate. If this were not done, the sulphurous acid which might be carried over, or any organic acid which is formed, would destroy the yeast in the next step in the manufacture of alcohol.

This next step is fermented. The solution is kept at a constant temperature and yeast is added, fermentation taking place very quickly. The process from this step on is similar to that which takes place in distilleries, the solution passing from the fermenting vats to the stills.

A remarkable feature of this process is the fact that the sawdust after leaving the exhaustion vats, can be used for fuel; for, although its volume constantly diminishes after each step in the process, still its value as fuel remains unchanged, no component having a fuel value having been removed.

The process is constantly being improved, and about 25 gallons of absolute alcohol is now obtained from a long ton of sawdust, or about double that quantity of crude alcohol.



CHARLES SOOYSMITH, TUNNEL EXPERT.

Charles SooySmith, expert in the pneumatic caisson method for foundations of large buildings and the freezing process of subaqueous tunneling, is a Buffalonian by birth and fifty years old. He is a civil engineer by heredity, his father having been an eminent member of that profession. The Pennsylvania Railroad company is spending \$100,000 under the East river, New York, in experimenting with Mr. SooySmith's freezing process.

COMMERCIAL CLUB MEETS

Ratifies Business of Executive Committee

The Commercial club held a called meeting last evening for the purpose of considering the recommendations of the executive committee in regard to turning over \$200 to J. P. Quillan as a trustee to apply on the purchase price of the ten acres of land to be donated to the Lutheran college. The matter was put to in the form of a motion and the recommendation of the committee.

The club also ratified the action of the executive committee and appointed Mayor Collins, Geo. F. Steele, Ira H. Shallis and T. A. Daughters to assist F. D. Wius and P. J. Quillan in the soliciting of funds for the \$25,000 donation to the Lutheran college.

Attorney Flynn was instructed to reconstruct the bylaws and make them conform with the articles of incorporation, and Geo. Steele proposed the name of G. P. Gunderson for membership to the club. There was considerable discussion as to the legality of secretary Philip Harding becoming a member of the board of directors. T. A. Daughters raised the question as to whether he had ever been made a member of the club, and stated that

if he had not he could not legally become a director. There was much discussion over this question, in which a number of the members of the club stated they were in favor of retaining Philip Harding in the capacity of secretary and also as a member of the board of directors and spoke of his efficient work since he has been connected with the club. The discussion disclosed the fact that he had been employed as secretary of the club but that he had not been a member. The club left the matter to the new board of directors on motion of J. C. White.

Visiting in the City.

Mrs. H. L. Doble and daughters returned from a two months' visit with friends and relatives in the Sound country, where Mrs. Doble was seeking better health. Her condition is considerably improved and they report a good time.

Arthur Cappalin, who was confined to the Coeur d'Alene hospital for some time with a severe case of blood poisoning, left yesterday for his home in Minneapolis.

M. W. A. PICNIC SUNDAY

The M. W. A. Uniform Team will give a picnic tomorrow and Monday and have chartered the steamer Boneta of the White Star line, which will carry them up the lake, leaving the electric dock at nine o'clock in the morning and returning Monday. This is the second excursion by the M. W. A. this season, the first being so popular that they are repeating it. The usual games and sports will be indulged in and there will be plenty of provisions.

The Church and Saloon

Next Sunday, at the Christian church, corner Ninth and Indiana streets, the minister will preach at eleven o'clock, taking as his theme Rom. 8:28, "All things working together for good." At eight o'clock in the evening "The Church and the Saloon" will be the subject discussed. Next Wednesday evening the union prayer meeting will be held at this church.

The Press wants a man or woman to solicit subscriptions either on salary or commission.

KOOTENAI CO. SOCIALISTS MEET

Holding County Convention In This City

The Kootenai county socialists are out in full force and holding their county convention in the McFarland hall today. There was a total attendance of about 65 delegates from the different precincts.

The convention was called to order at eleven o'clock this morning and elected John G. Koch of Rathdrum, as temporary chairman, and J. H. C. Scurlock, of Sandpoint, as temporary secretary. The temporary organization was made permanent and the following persons on the committee on credentials were appointed:

A. C. Smith, Lane; F. C. Runyon, Rathdrum; and W. L. Summers of Harrison. On the committee on resolutions three were appointed Scurlock, Hubbard, E. S. Van Hosten, S. A. Stowe, and W. C. Fuller. Following these appointments the meeting adjourned at one o'clock to convene at three, when the reports of committees will be heard and a ticket nominated.

Constantine's Vision.

"In Hoc Vincas—In Hoc Singo Spes Mea," or Constantine Revised, will be the subject at the Presbyterian church Sunday morning. A contest for new and old scholars will be launched at the Sabbath school that meets at 10. m. There will be no evening services at the church as the congregation will join in the revival meetings at the Fort Chapel.

At 3 p. m. on Sunday there will be a gospel service at the chapel in the Fort to which all will be welcome. In connection with this meeting the preliminary steps will be taken for the reopening of the Sunday school. Rev. and Mrs. Spicer will have charge of the evening service at 8 o'clock when an excellent program of song and sermon will be rendered. The meetings will continue at the Fort during the week and the public

will be made welcome.

Labor Sunday promises not only to be somewhat unique at the Presbyterian church but also quite interesting. It comes on September 2 this year, and will be given the right of way both morning and evening services. All unions and labor organizations will be welcomed either as individuals or in a body and such as report the prospective attendance will be given reserve in the sittings of the church. In addition to the special programs of music for the day subjects bearing directly upon labor and the social organism will be discussed.

BASEBALL TOMORROW

Home Team Will Line up With Dodd Clothing Company

The local base ball team will play the Dodd Clothiers tomorrow at Athletic park, the game being called at three o'clock. This is the team that showed the boys of this city how to play ball on July 4, and carried away the money. The locals are asking the question, "Can they do it again?" The only way to answer it is for them to play better than they did when they were defeated by the S. A. C. The game with the Warwick proved that the boys were out of form in the previous games, and there is a chance for a good game tomorrow.

The Steamer Queen, owned by A. Kennedy & Son, is receiving a treatment of paint and general repairing. The boat has been out of commission for several days but will resume its regular work Monday. Among other things a new thrust bearing is being installed and the engines are being thoroughly overhauled.

ARE SEETHING WITH ANARCHY

Baltic Provinces the Scene of Outrages

St. Petersburg, Aug. 25.—The Baltic provinces are seething with anarchy. From all the chief centers in that section come reports of outrages and clashes between the police and terrorists. Several bomb outrages were committed yesterday and the day before.

Factory hands in the Bakmut district held a meeting yesterday, at which incendiary speeches were made. The authorities summoned the Cosacks and a detachment of the latter appeared on the scene. The crowd refused to disperse, with the result that the soldiers opened fire, killing and wounding many.

Low Rates East.

The Northern Pacific offers the following rates to eastern points: To Chicago and return, \$64, dates of sale July 2 and 3, August 7, 8 and 9, Sept. 8 and 10. St. Paul, Minneapolis, Duluth, Kansas City, St. Joseph, Leavenworth, Omaha, Council

Bluffs, Sioux City and Ft. Williams, \$52.50. Dates of sale same as above; stopovers will be allowed west of the Missouri river. Tickets good for 90 days.

July 19, final return limit September 20.

Toronto, Ont., Sept. 8 and 10, going limit September 22, return limit November 30. New Orleans, La., Oct. 7 and 8, going limit Oct. 16, return Nov. 15.

Rates for above points have not yet been named through but will be made up by addition of the special rates used by eastern roads and our excursion rate of one fare plus \$10 for round trip. Complete information will be given later.

Return trip through California can be arranged.

Dr. Boyington and wife left for Chateaufort this morning, where they will spend Sunday.

DEMOCRATS ON MONDAY

The democratic county convention will reassemble at Rathdrum Monday for the purpose of nominating legislative and county tickets. A number of persons are mentioned for the various offices, but none are active candidates.

ATTORNEYS ARE SILENT.

Leave Boise Without Explanations.

Boise, Idaho, Aug. 25.—Attorneys for the defense in the Steunenberg murder case have again scattered, leaving this afternoon and tonight for different points. E. F. Richardson has gone back to Denver and

Clarence Darrow is on his way to Spokane and Portland. The latter said he was coming back to attend the irrigation congress. Nothing has leaked out indicating why they assembled here at this time. No move has been made in the case so far as can be learned. The prosecution is entirely in the dark as to the cause of the visit.

Scrub yourself daily, you're not clean inside. Clean inside means clean stomach, bowels, blood, liver, clean, healthy tissue in every organ. Moral—Take Hollister's Rocky Mountain Tea. 35 cents, Tea or Tablets. The Coeur d'Alene Drug company.

INSURGENTS GAIN RECRUITS

Rebel Army in Cuba Is Rapidly Growing

Havana, Cuba, Aug. 25.—Unofficial advices received from the western part of the province of Pinar del Rio are to the effect that the insurgent forces, now concentrating west of San Juan de Martinez, are far more formidable than had been supposed, and also are better supplied for a long and aggressive campaign. Pino Guerra's following in Pinar del Rio now is certainly from 1500 to 2000 men.

A Draft for \$700.

Notwithstanding the heavy losses of the insurance companies through the San Francisco fire, my agency is able to adjust all losses in an incredibly short time. This is proven by the fact that in 10 days after the destruction of Homer King's residence at Hayden Lake by fire, I presented him with a draft for the full amount insured, being \$700.

GEO. F. STEELE.

Has Established an Agency.

E. S. Smith, manager for the Equitable Savings and Loan Association, of Portland, is a visitor in the city, and has established an agency at the First National bank which is under the supervision of G. S. Sargent. The advertisement of the company appears in this issue.

H. P. Excursion Rates.

Notify your friends in the east how cheaply they may visit you. Round trip from St. Paul, Minneapolis, Duluth and Superior to Portland and all Sound points, \$60; to Spokane, \$55. From Chicago to Portland and all Sound points, \$75; Spokane, \$70. These tickets are good to return via southern route if desired. Dates of sale, June 1 to Sept. 15, 1906, final limit, Oct. 31, 1906.

AN OLD SOLDIER DIES

Michael Shaffner died last evening at 3:50 o'clock after a short illness. The deceased was 69 years of age and had served 40 years in the United States army, passing through the civil war, and was a member of the Fourth Infantry at Fort Sherman for many years. He came to this city in 1891 and has many friends among those who served in the army with him and among the residents.

Of his relatives, but two remain to mourn his loss, one a brother in Missouri and a sister who resides in Illinois. The funeral services will be held under the auspices of the G. A. R. of which he is a member, belonging to A. T. McReynolds, Post Num-

ber 19, department of Idaho, but no date has been set and nothing will be done until word is received from his brother. The remains are in charge of G. Arthur Goble, of the Idaho Undertaking company.

Miss Susan Davis will spend Sunday with her parents.

Clyde Walker will spend Sunday on the Coeur d'Alene river.

A continuation of the Danner bankruptcy case, of Post Falls, was held before Referee Potts in his office in this city yesterday.