

Reported Discovery

OF SYNTHETIC COAL FROM STONE

The reported discovery by a Munich chemist, Professor Prueckner, of a process for making a high grade anthracite coal from stone and chemicals has aroused considerable excitement in Germany, and especially in other parts of the world.

To the new industrial Germany coal and iron and steel are the greatest necessities at the present time, and coal is the master of iron and steel. Therefore, if Prueckner's discovery proves to be of great value, it will be of great benefit to Germany, and even the discovery of great gold deposits could be.

Germany has lost its richest coal mines in Upper Silesia to Poland. It is considered probable that the French will keep the Sarre Valley, and are eagerly looking for any opportunity to occupy and retain the Ruhr district, containing the most important coal mines of Continental Europe and the only rich anthracite territory still under German control. Germany's water power resources are relatively small, but if developed they will not yield more than 100,000 horse-power of "white coal," since the French, in the Versailles Treaty, secured the exclusive right to develop the Rhine between Basel and Lauterburg, and the other big rivers, with the exception of the Weser, have been internationalized.

So it seems that Germany's very existence was placed in jeopardy more so as the peace treaty prevents her from entering into commercial treaties, except of minor subjects.

Nineteenth and twentieth century civilization is largely based on the use of mechanical power for the purpose of production. The mutual relations of mechanical power and civilization have never been drive home to the public at large as they have been brought to universal attention by the world wide coal shortage during the war.

Synthetic Coal Produced.

Though the Berlin Patent Office has not yet rendered a decision of Prueckner's application for a patent on his synthetic coal process, the fact that Prueckner produced synthetic coal that in every respect is the equal of anthracite has been established beyond any doubt by a number of official practical tests.

One of the tests was made to ascertain the heating power of each of the two kinds of fuel. The synthetic coal burned without a smell and with an insignificant volume of smoke and produced 7985 heat units per 100 kilograms, 220 pounds, while anthracite coal has a heating power of from 7,000 to 8,000 heat units per 100 kilograms, and emits many times more smoke, causing the well known odor. That means that synthetic coal, if used to produce directly heat or steam, at least signals high grade anthracite.

Still more favorable was the gas test. One hundred kilograms of anthracite were placed in one retort and the same quantity of synthetic coal in another. Both retorts were subjected to the same heat, and their contents converted into gas and coke. The gas obtained from the synthetic coal yielded more heat units per second while it lasted and it lasted longer than the anthracite. The coke of both kinds of coal equalled in weight and heating power. That result is of special importance because Germany is consistently striving to restrict consumption of coal to factories and gas works, and has made already much progress in that direction.

Gas Generating Plants.

The heat from burning coal is to be utilized to make steam to drive stationary engines. But thereby not more than 18 per cent. of the inherent power of coal can be utilized. Not to waste the remaining power, the first thought of the chemist connected with gas generating plants is the illuminating gas yielding about twice as much heat or power as the direct burning of coal.

The chief by-product of that process is coke to be burned in blast furnaces of ships and in households, which may also use either illuminating gas or hydrogen gas for heating purposes. The hydrogen gas is produced by pouring water on live coals. Small and medium industrial establishments will by and by have to install gas motors and use illuminating or hydrogen gas.

The process of production of synthetic coal is simple, according to Prueckner who operates near Munich a small plant. The process is as follows:

"Factories will be erected in the vicinity of quarries. Two different kinds of soft stones are crushed and ground into fine sand and mixed with certain chemicals. The mixture will be moistened, pressed into briquettes, heated, dried and cooled. The synthetic coal industry will not depend on anthracite or bituminous or sub-bituminous coal or peat, or their by-products, or on any other material used as fuel."

Plenty of Raw Material.

"Germany, like nearly every other country, has a superabundance of the necessary minerals and can produce the chemicals in unlimited quantities. As produced in the little plant near Munich, synthetic coal can be sold to the consumer at half the price of anthracite."

A LADIES' SALE!

Our Eighth Week's Choice

Is a "Make-Room" Sale for Ladies

Every well-dressed woman in the city knows exactly what class of Ladies' Wear we have always carried—If something quite different in style and quality was needed our Showroom was always able to supply it, and if advance styles were sought—here they were always found.

Now—we are clearing out our entire stock of Ladies' Wear at enormous reductions. This stock includes Dresses of Silk, Satin, Crepe-de-Chine, Canton Crepe, Velvet, Serge, Tricotine, Jersey Cloth, etc., in many styles and colors. Beautiful Crepe-de-Chine and Satin Smocks and Blouses. Cool, comfortable Morning Dresses for house and country wear. Cute little frocks for tiny tots. Silk and Wool Sweaters and Scarves. Sleeveless linen Jumpers. High grade Silk Hosiery in all the new shades including Field Mouse, Navy, Cordovan Brown, African Brown, White and Black, and a variety of "odd" lines.

This Sale will be a "different" one to all others in every way, as none of it is just "Sales" goods. garment is our regular stock, and that covers all that need be said.

"Slip-ons"

Dainty and new are these pretty Slip-ons; some are the famous "Bob-Long" Brand, a very few of knitted Ribbon; all of them have the stamp of quality, and the colors are delightful. The prices are so marked-down that they'll not last long.

\$3.75 to \$10.50

Wonderful Bargains in Silk Sweaters

Some very beautiful shades and qualities are offered in this line of Sweaters: Rose, Henna, Blue, Grey, Black and White, and many others, with large self, or white collars. Values up to \$21.50 are included. Every Sweater must be cleared to Make-Room for other stock.

Your Choice \$5.00

Linen Suits

Only a small line of Linen Costumes, some large sizes among them, in Black and White, Blue and White, Green, Sand and other shades, serviceable and cool for country wear. These are in good quality, hard wearing Linen and Crash.

All one price \$4.50

Ladies Dresses in Silk and Satin

Beautiful quality Silks, Satins and Crepes, in shades of Green, Champagne, Wine, Nigger Brown, Blue and Black. Many stylish models to choose from.

Prices from 11.75 to 33.25

Ladies Dresses in Serge, Tricotine & Jersey

Navy and Black chiefly; some handsomely stitched heavy Silk; others beautifully braided, are among this most handsome selection of Dresses for smart women.

Prices from 11.75 to 45.75

Poplin Dresses Poplin and Taffeta Skirts

Good quality Silk Poplin and soft Taffetas in plaids and stripes are the materials used in these pretty Skirts and Dresses.

Prices from \$3.75 to \$8.00

Morning Dresses

Smart Checks, Stripes and Floral Patterns in Gingham, Voile and Muslin; neat and attractive designs; some very good class frocks are among this lot, some of which are just what you'll need for beach and country wear this Summer.

Splendid Value at \$2.50

Crepe de Chine Blouses White Satin and Crepe Smocks

Finest quality Crepe de Chine Blouses, White and Colored; some "out" sizes among them. Very smartly cut and finished; heavy lustrous Satin and Crepe Smocks; White only; very beautifully hand-smocked, long coat models. Reduced to half price.

Blouses \$5.38, \$6.38, \$7.25, to \$9.75
Wash Satin and Crepe Smocks, \$9.75

Ladies Lisle, Cashmere and Silk Hose

92 Pairs Black and White Cotton Hose; per pair 18c.
37 Pairs Black Lisle Hose; per pair 30c.
15 Pairs White Lisle Hose; per pair 50c.
37 Pairs Black Wool Cashmere Hose; per pair \$1.45
76 Pairs High-class assorted shades Silk Hose.
\$1.05, \$1.25, \$2.10, \$2.50 and \$2.75 per pair.

Sweater Scarves

Very smart in appearance and very comfortable in wear are these soft fleecy Wool Scarves, convertible into Sweater Wraps when desired—many lovely colors among them.

Genuine "Snap" at \$6.40

Children's Dresses

Such dear little Dresses for small little people: White and White Net, faint Blue or Pink collars, hand-trimmed French knots. These little frocks are big bargain at their prices.

\$1.40, \$1.95, \$2.60 up

U. S. Picture & Portrait Co.

Water St., St. John's

Safety First.

The Newfoundland Motor Association wishes to continue its "Safety First" campaign with the object of making the streets safe for pedestrians and occupants of vehicles. The Association has already asked the Municipal Council to erect signs at dangerous corners, and special signs near schools, churches, etc., warning all drivers to slow down when passing same. Motor drivers find it extremely difficult to avoid collision with

1. Pedestrians who walk in the centre of the streets, even where good sidewalks are located.
2. Those who cross the street without taking the trouble to look for Motors or other vehicles which may be approaching especially between crossings.
3. Children who play games in the centre of the main streets which are used by motorists and other drivers.
4. Children and grown-ups who stand their ground and deliberately dare the Motor Driver—This is a frequent occurrence.
5. Children who stand out in the street as far as possible and think it great fun to throw their caps under the wheels of a passing car.
6. Children who steal a drive by clinging to the rear of a Motor car when in motion. A boy stepped in front of a car and was killed last spring in St. John's, because the driver was giving his attention to another boy clinging on behind.

HEMORRHOIDS
Do not suffer another day with itching, bleeding, or protruding Piles or Hemorrhoids. No surgical operation required. Dr. Chase's Ointment will relieve you at once and afford lasting benefit. See a local dealer or Edmundson, Bates & Co. Limited, Toronto. Sample box free.

The Motor Association is using its influence on all motorists to drive cautiously and at fair speed, and to turn corners with care under close control—after giving proper signals—realizing that pedestrians have undisturbed rights in the use of the streets.

Parents and teachers are asked to co-operate as much as possible by advising children who cannot go to the park to confine their play to the sidewalks and side streets.

St. John's, June 27, 1922.

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THE FUTURE.

To see what's going to happen! There's the rest Of life for all who walk the world to-day. Shall some new morning better this day's best And some new joy come smiling down the way?

Onward we trudge from youth to ripe age, Bearing the burdens as they daily fall, Yet keenly eager for tomorrow's page And wondering what's beyond the distant wall.

Life's an adventure from its start to close, Dawn is the gateway to the realm of unknown, What we shall find by night time no man knows, Yet he would see the wonders to be shown.

Always tomorrow lures us on and on, Ever we dream of what may lie before, The present scene night's curtain falls upon, The morning shall have something new in store.

So to the last, when from its robe of clay The spirit breaks, with joy I would set out, Eager to tread the strange and unknown way, To see and learn and settle every doubt.

CIDER!

LAND OF EVANGELINE
Pure Apple Cider.

Bottles and 15 Gallon Kegs.

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