

## FUEL OUTLOOK NOT SO BLACK

Canadian Engineers Are More Hopeful This Year

### NATURE GENEROUS

Chief Need is Proper Facilities For Production and Distribution of Our Own Resources

Solution of fuel difficulties is occupying the major share of attention at the annual meeting of the Canadian Society of Civil Engineers Tuesday in the Physics Building of the University of Toronto. About 150 members of the society were in attendance.

Latent Canadian Resources. "The fuel situation of Canada, as a view it, is not a gloomy or discouraging one, for we are endowed with fuel deposits on a magnificent scale. All that is necessary now is that their proper exploitation and economic use be assured," was the assuring statement of E. F. Hazen, who delivered the first paper on "The Fuels of Canada."

The situation which Canada is facing today be attributed to conditions obtaining in the United States. While not wholly dependent on the United States for its fuel supply, Canada is dependent to the extent of 55 per cent. of its total coal requirements and 98.2 per cent. of its crude and refined oil products. The fuel situation existing in Canada today is blamed on the ease with which fuels of all kinds were imported from the United States and to the apathy displayed towards the exploitation of certain of our own fuel resources by the public at large.

### Lignite and Peat Available

He analyzed Canada's fuel resources, their location and extent, which showed the necessity for the excessive imports. In addition to the coal reserves there are 37,000 square miles covered with peat bogs. Of this amount 12,000 square miles are scattered through the central provinces. He dealt in his address with the preparation of lignite and peat for economic utilization, and expressed the opinion that only a small amount of money would be necessary, compared with the immense value which the solution of the important problem would be to the country, would be required to demonstrate that lignite of the west could be converted into a fuel satisfactory for domestic and industrial processes. Dealing with the question of peat, he said that there were large bogs convenient to Toronto, which could supply the city with 25,500,000 tons of fuel.

One-fifth of the total damage carried by the railways is coal, according to the paper of W. N. Neil, general secretary of the Canadian Railway Association for National Defence, which was read on "Transportation From the Fuel Standpoint."

Referring to the bituminous and lignite mines in the west, he said they had never been able to turn out a maximum amount of labor conditions. A tribute to the records the railways have made was paid by Mr. Neil.

Forces Cheaper Fuel. In speaking on "The National Development of Canada's Coal Resources," W. J. Dick, Mining Engineer of the Commission of Conservation, painted a rather fanciful picture. "It is not beyond the bounds of reason to foresee a condition whereby a householder in the place of his ton of anthracite," he said, "which he now welcomes for \$11, will receive a ton of smokeless coal, without slate, a month's supply of cooking gas, forty miles of motor fuel, enough fertilizer to start a small garden, and far sufficient to ally the dust in front of his house—all for less money than he now pays for inferior coal."

Any reform in the domestic fuel in central Canada should see a reduction in the cost of domestic heating, and a mitigation of smoking, he claimed. He could see no possibility of Nova Scotia competing with the United States as regards bituminous coal, and for the present at least, central Canada would be dependent on the United States for bituminous coal to replace the anthracite.

## DRINK HOT WATER IF YOU DESIRE A ROSY COMPLEXION

Says we can't help but look better after an inside bath.

To look one's best and feel one's best is to enjoy an inside bath each morning to flush from the system the previous day's waste, sour fermentations and poisonous toxins before it is absorbed into the blood. Just as coal, when it burns, leaves behind a certain amount of incombustible material in the form of ashes, so the food and drink taken each day leaves in the alimentary organs a certain amount of indigestible material, which if not eliminated, forms toxins and poisons which are then sucked into the blood through the very ducts which are intended to suck in only nourishment to sustain the body.

If you want to see the glow of healthy bloom in your cheeks, to see your skin get clearer and clearer, you are told to drink every morning upon arising, a glass of hot water with a teaspoonful of limestone phosphate in it, which is a harmless means of washing the waste material and toxins from the stomach, liver, kidneys and bowels, before putting more food into the stomach.

Men and women with sallow skins, liver spots, pimples or pallid complexion, are those who wake up with coated tongues, bad taste, nasty breath, others who are bothered with headaches bilious spells, acid stomach or constipation should begin this phosphated hot water drinking.

A quarter pound of limestone phosphate costs very little at the drug store but is sufficient to demonstrate that just as soap and hot water cleanses, purifies and freshens the skin on the outside, so hot water and limestone phosphate act on the inside organs.

### pendent on the United States for bituminous coal to replace the anthracite.

Possibilities of Peat as Fuel. The "Utilization of Peat" was taken up by John Blizard, Technical Engineer, Division of Fuels and Fuel Testing, Mines Branch. There was every reason to suppose that the successful inauguration of the peat fuel industry in Canada could not be long delayed.

### MOTHERS PRAISE BABY'S OWN TABLETS

Every mother wishes her little ones to be well—thousands of mothers have learned the secret of keeping them well. They have found by experience that an occasional dose of Baby's Own Tablets will prevent sickness, or if sickness comes on suddenly the Tablets will promptly give relief. These mothers have nothing but praise for the Tablets. Among them is Mrs. Gustave Lord, St. Perpetue, Que., who says:—"I have been using Baby's Own Tablets for my little ones for a number of years and have found them a perfect medicine. They regulate the bowels; stop vomiting; in fact they are good for all the little ailments of childhood." The Tablets are sold by medicine dealers or by mail at 25 cents a box from The Dr. Williams Medicine Co., Brockville, Ont.

### PARIS WAS SHELLED ON GOOD FRIDAY

Paris, March 29.—The long range bombardment of Paris was resumed shortly after 3 o'clock this afternoon. Seventy-five persons were killed and ninety wounded, most of them women and children when a shell fired by a German long range gun fell on a church in the region of Paris while Good Friday services were being held, according to an official communication issued this evening.

Among those killed was H. Stroehling, councillor of the Swiss Legation in Paris. This same church was struck by a shell during the celebration of high mass last Sunday and many casualties resulted. At least, central Canada would be dependent on the United States for bituminous coal to replace the anthracite.

## NEW ENEMY GUN NOT GIGANTIC?

Believed It Has Three Powder Chambers

An Engineer's Views — Noted Detroit Inventor, Now in Toronto, Gives Theory of New Weapon Which Bombed Paris

(Toronto Globe.)

J. E. Desmond of Detroit, a prominent American engineer and inventor of pneumatic devices, who is here at the request of the dominion government to give practical demonstration of certain devices of which he is the inventor, claims that the large gun which has been pouring shells into the city of Paris is no bigger than the largest gun used by the Allies on the western front.

"Of course, we have no idea as to the latest type of guns pressed into service by the Hun," said Mr. Desmond, "but I am satisfied that my theory is the most tenable yet advanced respecting the capabilities of the monster gun which has sprung upon the Allies a few days ago, and about which all kinds of theories have been exploited."

Not a Long Gun. Mr. Desmond says the gun, which, in his belief, is not 120 feet long, but one of the same type used to throw shells thirty-three miles, fitted with auxiliary powder chambers, which are the prime factors in firing a shell for such a considerable distance. Mr. Desmond claims the new gun used by the Germans is something similar to an invention he experimented with some years ago.

The primary is charged with a rather slow-burning powder. The initial charge is a slow explosion followed by an intense heat, the first auxiliary charge medium, while the second auxiliary charge is four times as great as the first. When the projectile has reached the second auxiliary charge, which is exploded by the intense heat, the recoil has been overcome and the velocity becomes tremendous.

Mr. Desmond advances the theory that by the use of the small gun equipped with the auxiliary powder chambers there is less air resistance and less recoil. No matter how great or how large the velocity is increased fifty per cent. by adding the multi-charge. The gun would not necessarily have to be 120 feet long, as supposed, to throw a shell between seventy and seventy-six miles. Invented Steam Injector.

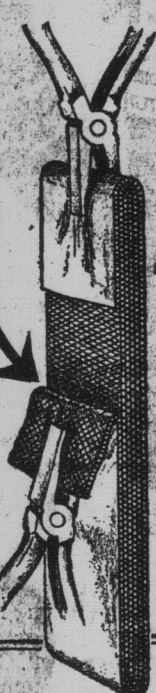
As an inventor of pneumatic devices, Mr. Desmond has seventy-two patented devices, all of which are now in use. While Gifford of France was the original inventor of the steam engine injector, which controls the steam in a locomotive, the original steam injector was made of seventy-five parts, which Desmond subsequently reduced to fourteen parts, the latter being used almost exclusively on locomotives in every part of the world.

Mr. Desmond is also the inventor of the bicycle pump, the emery dresser, the pneumatic starter for automobiles and numerous other contrivances used in practically every branch of the manufacturing industry.

### ST. JOHN AS A WORLD PORT.

At the last regular meeting of the council of the board of trade a committee was appointed to give consideration to certain phases of St. John's situation which have a bearing upon its future as a national port. It was the feeling of

the council that the time was opportune to secure, if possible, complete co-operation and cooperation of all port interests, so that every obstacle in the way of the progress of the port might be removed by the time the end of the war had been reached. It is expected that this subject of port expansion will be more fully discussed at the regular meeting of the board next week. Members having views on the subject are invited to attend and express them.



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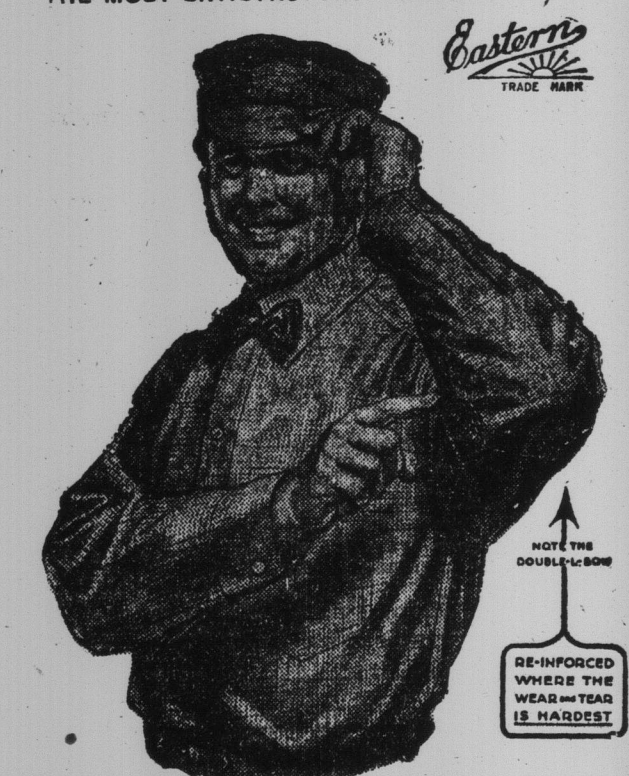
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