By John Fisher

This article, one of many radio talks by John Fisher, Canada's wandering reporter, is published by permission of the CBC and Mr

The nobs on doors, the shapes of cans, the slope of a road, the collar button, the light switch, the gasolene, the airplanes, trains and cars - even the shoes upon which we walk and the beds in which we sleep come to us from these: "SLIDE RULERS"

There was no big light in the sky this night. The big hook of Father Time had reached up and pulled down the moon. Even the stars had taken the pledge of total abstinence. A night beside the ocean, so dark it seemed black black except for the thick gooey piano. At least it sounded like versities. gray that seemed to hang from the scales, but right beside the the sky and come up from the house he found differently — she times as many as we did before oped. ground. The weatherman would was actually playing a musical the war and yet there is still a engineering jobs we have, the mutter something about heavy fog composition. How strange, he great shortage of engineers. Beconditions and mariners out at sea thought, that in the fog he heard fore the war we thought 800 engiwould curse the elements and only certain notes. He asked his neers a year was pretty terrific. praise man and modern eyes of daughter to play the same thing This spring more than 10,000 new radar which can see through over and over. Then he took out professional engineers have come Canal, Quebec Bridge, Polymer at nights like this. The Atlantic his watch and counted off so many coast had a muffled look, even the feet. He listened, he moved furth of Canada - not alone in the dazsounds of natures. As each per- ed away, he listened. Again it was to make his own channel through through the fog. Robert Foulis the fog — much like a man walk- knew he had discovered something. ing through a bank of snow, only He had — the foghorn. It was not ing in its softness. And street was groaning on the shore; outside further she rose and fell and on the fog horn a principle of water her back moved the heels of eco- travel. nomics. And there on the shore we could hear the slow steady growl of the fog horn, as if in courtesy to this invention of mans, the fog lifted its curtain long enough to let the low tones slip through. Mournful and steady it growled, and as I listened to its protest, I wondered about this invention. Who did invent the fog horn, anyway? Who gave the world of shipping this blessing -

ways curious

ed; all had to be invented first. airplane factories to flour mills to the inventor and the profession- the professional engineers. al engineer who makes the wonders usuable and practical.

this one voice which speaks when my old friend, Ira P. MacNab, who ada have been trying to have the night is black and dark? Had is President of the Dominion As- word professional adopted in gen-Robert Foulis been born in any sociation of Professional Engi-eral use. They want to draw a other country, his name would live neers. Next year he will be head distinction to the man who runs in the classroom and museum, but of the Engineering Institute of the locomotive and the university the inventor of the fog horn was a Canada. Ira MacNab, who has graduate in engineering. Some of Canadian, and in Canada we seem worked as an engineer in Venezula, the big Canadian companies such to forget our distinguished sons. Mexico. the United States and as Shawinigan, Consolidated. On-The fog horn was invented partly parts of Canada, believes that no tario Hydro, will have hundreds of by accident, and partly because country in the world holds great- professional engineers employed. its inventor was a student — al- er opportunity for the professional One big company which manufac-It was a dark foggy night when the day of the young engineer leav- things electrical told me that out Robert Foulis was walking along ing this country the day after of every 27 employees, one is a the streets of Saint John, New graduation are finished for good. professional engineer. And as in-Brunswick. He couldn't see a thing There is no greater indication of dustry grows more and more comin front of him, but as he neared the new developments in Canada plex and the bonds with the world his house he could hear his daugh- than a survey of the engineers be- of science are tighter and tighter

We are turning out nearly five forward to help with the building Sarnia and so on. they serve here, but the great serengineering, for the strength of the they built an automatic rayon industrial front. In that line we plant where 5000 separate fila-The light switch on the wall, the are a front ranking power. Modern ments of thread are created from knob on the door, the cap on the industry is geared to science and bottle - the wonders of science the engineers are the cogs in that and the simple things we take for alignment. From farm implement granted - all had to be engineer- makers to toy manufacturers, from How great is our debt in society they all need the special talent of

You will note that I am using the word 'professional' engineers. Last week when in Halifx, I met The various associations in Canengineer than Canada. He believes tures light bulbs and motors and ter practising the scales on the ing turned out by Canadian uni- the more we will depend on the engineer. Behind the Iron Curtain. today, they put tremendous empha sis on the engineer. The dictators behind the Curtain know what modern wars and indeed a high standard of peace are won and maintained by the power of the industrial front.

Last year I met a high school graduate who wanted to study engineering. Several people advised against it — they told him there were too many engineers being turned out of college. I believe these cautious folk are wrong. This country is moving so fast we find ourselves acutely short of professional engineers. And besides, today, Canada is in the world engineering market. We are now big exporters of engineering brains to India, Mexico, South America, Greece, Israel and all over the free world. The other day I met a Canadian professional engineer just back from Casablanca, Morocco. The project had been designed in Canada and supervised by Canadians. The ancient lead zinc mine in the Atlas Mountains, worked by the Romans 2000 years ago is now being reopened and developed by French-American capital, but the mining machinery, the shaft house and mill, the grinders, crushers were designed by Canadians.

The biggest mine hoist in all North America is a freight elevator which will lift ore for the International Nickel Company at Sudbury. I noticed a little item in the paper about it recently. It was built by John Bertram and Sons Company in Dundas, Ontario. A little notice in the paper, but a Canadian enginering job employing hundreds of men - the building of a freight elevator which will haul

hour. Now imagine how busy the cil. industries of this country will be in Another intriguing invention, the building of a railroad in Labra- saw this summer when guest of which will come to industry when We stopped at Cobalt to inspect we start moving ten million tons of the silver mines. Now each mine iron ore a year. And think of what requires great quantities of comwill happen when we complete the pressed air to drive the drills. oil pipeline . . . run it right to Compressing air is expensive. Montreal. Hear too, the talk of a About 40 years ago when Cobalt natural gas pipeline to Montreal was the biggest silver camp in the from Alberta . . . plans for a huge world, a Toronto engineer develaluminum development in British oped a scheme to produce air for Columbia . pany in Manitoba . . . big uranium the kitchen sink. Have you ever works in Saskatchewan . . . enor- noticed how the water swirls mour power developments in On- around the little screened drain tario and Quebec is fairly panting in your sink. It creats a suction with development these days. Even and pulls the water down. Somein the Maritimes there is steady times it goes down with a gurgle. growth. In Newfoundland they of Well, this Toronto engineer damcourse, hold part of the rich ace med up the Montreal River. Above card of Labrador. As the Honorable C. D. Howe, himself a professional engineer, said the other day he placed two cylinders with holes this is no country for pessimists. It certainly is an engineer's dream -for we are still largely undevel-

One of the most thrilling engizling shows of Shipshaw, Welland, neering accomplishments is at son walked that night he seemed only the low tones that came Labrador, Pipelines, Steep Rock, Port Arthur where the box cars power projects, Chalk River — yes from the Prairies are emptied vice is behind the scenes, in the The car rolls in, a giant machine this stuff was soupy and madden- long before the whole marine factories and assembly lines which reaches forward, grabs the box world rendered thanks and their keep us strong. Canada, in the car, lifts it, tilts, spills the grain lights seemed smaller than a fire-blessings to this Canadian inventor eyes of an enemy can never be rat-out swoosh. And to make sure it is fly's glow, and outside the ocean who died a poor man. From his ed for the number of troops she completely unloaded, it tilts the simple idea, engineering has made can raise, but she is known for her box car end to end. At Cornwall

ones in the plants. And there are some spectacular ones in addition

to the mountain tunnels, Welland 💠

The more big spectacular

to the surface 500 tons of ore an nozzles no thicker than a lead pen-

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. another nickel com- nothing. He took the principle of drop in the river. Under his dam in them like a kitchen drain. Only the holes led to pipes which went straight down. As the water from the dam swirled over these cylinders, it was sucked down and went

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at the Stag Part teen. Left to ri "Perk" Perk

photo of several

A Report o

(continued from to such an extent impossible to fine alone to keep it of Highway was cons supplies over to t way from the ocea struction, and is s purpose.

From Haines Ju the Alaska High north west, one c high plateau, the gion, and finally frost area around At mile 1130 th

the Donjek River seven trestles. time, the Army i seven span stee bridge has been tion for several ye pletion is not ex years to come. because one of the construction to give practical bridge building to Also, because it frost area many holdups have o completed, the br provide a better Donjek River, by out several miles

It is well know tion in permafro more difficult t which alternatel thaws. In most frost is covered muskeg. If this ed, the ground upon exposure to result is a soupy is impossible to smallest building last. There ha where tons of placed on thawe never seen again most satisfactory struction on perr the muskeg, and

highway.

Between the 1 the Alaska borde almost entirely frost and is not it was in the so is continually and repaired who is always open to

The Alaska b 1221, and from the highway is Alaska Road quality of the r same as on the interesting to no mer of 1949, the topped a sectio in Alaska, which condition in the having survived and spring thaw damage. It mu however, that t was almost who try and it would tion of the suc Canada. The h is in a much r region and there to warrant the unpaved road is a par with man where. At the present

in Canada is n Canadian Army



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