The Pioneer Paper of the Porcupine Established 1912

Vol. XXXIII No. 21

Published in Timmins, Ont., Canada EVERY THURSDAY

TIMMINS, ONTARIO, THURSDAY, MAY 27th, 1948

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Single Copy—Five Cents

RUSSIA USING HITLER TACTICS - RIDDELL

Don't Go Down In The Mine Daddy · Professor Warns Alumni Unless The 'Rope' Is Government Tested Russians Are Past Masters' At Psychological-Aggression What child has not, in bewildered

wonderment, followed the slow desspider produce this fine thread-like hard-to-see little hair support the weight of the spider's comparatively

Engineers who first produced morope probably got their inspiration from the spider. Elasdel'y and great strength are the main qualities of a spider's thread or a dern mine rope which enables a tenton cage or skip in some Ontario mines to service a unit of our province's great mining industry.

The rope, as hoistman refer to the coiled cable on the huge hoisting dnums, is the lifeline of all Ontario underground mining operations. Its duties are as complex and varied as its construction.

It is the purpose of this article to tell in part the story of mine ropes, their particularities and the means used by rope manufacturers, the mining industry and the Ontario Department of Mines to constantly improve than 13,000 rope tests involving demethods of production, use and care struction of a rope sampes on huge of such ropes and hosting equipment machines. The most recent machine for the greater safety and efficiency purchased by the Department can exof our mining operations.

the tremendous amount of work in- purposes. Delicate balances can recvolved in the inspection and testing ord a pull of twenty-five pounds and of mine hoisting equipment by the a recording graph gives the story of Mines Inspection Branch of the Ont- the tensile strength of the sample. ario Department of Mines. Technical Less than sixty years ago the min personnel made up of mechanical en- ing ropes used in underground operagineers and assistants at the Govern- tions were either made of manilla or ment Rope Testing Laboratory at De- were flat, braided, belt-like ropes. partmental headquarters, Queen's As high speed hoist and skip prac-Park, in Toronto, have established an tices were introduced by modern enviable reputation in a highly spe- mining and depth of mining operacialized field. Ontario can boast pos- tions increased, stronger and more session of one of the best equipped elastic ropes were called for, and so mine rope testing laboratories in the rope manufacturers developed the

A few statistics reveal the scope of il'a core which is in general use today operations. There are presently 209 and one-eight inches.



ert a pull of one million pounds, which Few people in Ontario are aware of is more than ample for all practical

cable-like metal rope with the man-

Most ropes used in Ontario mines hoists and 357 ropes in service in Ont- are composed of many strands of wire ario mines. The combined length of of high carbon steel. The core around these ropes totals 768,687 feet or 1146 which these strands of wire are laymiles. Their diameter varies from ed is soaked with a lubricant which the last Session of the Ontario Leg- from the guides filled the teeth of five eights of an inch to one inch sev- exudes as the strands squeeze it in en eights, the average being about one normal operation. This insures com- sample from any rope purchased by useless. The new safety catches, Ever since 1922 the Rope Testing of wires. Whenever a rope sample lation of the said rope. The tests in- one or more teeth and a sharp cutting



Sections of mine rope samples are tested for torsion by the machine in the foreground. At left, operator makes last minute check on rope diameter before testing strength.

the weakness.

Corrosion and fatigue, or embrit- tors of mining ropes. tlement, are the worst enemies of One of the greatest contributions of necessatily appear on the surface hoisting operations is the new 'dogs' layers of a rope. It may come from which act as brakes on mining cages. normal inspection.

ment of Mines has performed more testing purposes a piece of this core dicate the original tensile strength; wood torn from the guides by the en-

is examined and a chemical test de- corresion test of all the wires in the Dr. Riddell said that it had been his termines the amount of lubricant rope, and a lubrication test of the core. left. As time goes on less and less Such tests will be repeated every six League of Nations in Geneva and lubricant appears in these tests and months until the rope is condemned. finally when it is thought that the Research into better methods of core is too dry or does not contain lubricating mine ropes is being presssufficient oil, the rope is condemned. ed by the petroleum industry and A rope may be condemned for other they, along with the Ontario Research reasons. It is a fact that when a rope Foundation, and the Inspections shows a deficiency in one test other Branch of the Department of Mines. tests, such as visual examination, ex- as well as the rope manufacturers,

tension and torsion tests will reveal are collaborating in an effort to increase the qualities and safety facmining ropes. Corrosion does not Ontario mining men to the safety of

foul air in a mine or from water in In the case of the Paymaster accia "wet" shaft. The Paymaster ac- dent, once the cable broke the dogs cident of February 1945, was attrib- failed to stop the plunging cage. They uted to a corroded mine rope and were so built as to grip the shaft results are now well known. corrosion was not evident through guides the very instant the rope broke. Unforunately, notwithstanding the The new legislation introduced at fact they did grip, the wood torn islature calls for a complete test of a the safety catches and rendered them plete lubrication of the inner strands an Ontario mine prior to the instal- evolved through research, consist of Laboratory of the Ontario Depart- is forwarded to the Department for clude destruction of the sample to in- edge which immediately sheds the

gaging teeth.

More than sixty percent of Ontario mines are now using this type of safety catch and it is expected that soon all our mining cages will be so equipped. New regulations call for at least three tests following the installation of these dogs and they are the most severe tests called for by any mining regulations in the world. Maximum speed and load conditions are called for and must be carried out in the presence of one of the mechanical engineers on the staff of the Mines Inspection Branch, Already 200 free-fall tests are being carried out in 1947, and this year 108 such tests have been made to the satisfaction of the Mines Inspection Branch.

In an effort to offset hoisting accidents specialists have suggested that larger hoisting drums and sheaves be used. This they say, will reduce rope damage to a minimum. Only three layers of cable may now be permitted on any hoisting drum.

Complete records of all tests carried out by the laboratory are compiled and published by the Department of Mines. These are widely distributed and are proving of inestimable value to the manufacturers of

mine hoisting equipment. Work being done by the Mechanical Engineering personnel of the Ontario Department of Mines has attracted universal attention. Inquiries from all parts of the world have been received for information on the methods and techniques employed here. It is believed that although accidents will occur their rate will decline to a very low figure as a result of exhaustive research and tests being carried out by the Rope Testing and Mechanical Engineering sections of the Mines Inspection Branch.

(Terento Saturday Night).

One of the reasons why the provinces of Canada do not get better government, and why the electors are often so little interested in their getting better government is that their elections are so seldom fought on really provincial issues. . . even the Toronto Telegram cannot quite concear its amusement at the idea that the present Ontario election has anything to do with its alleged cause - the project to switch the Central Ontario area from 25-cycle to 60-cycle.

The electors of Ontario will cast their votes on June 7 with a view to their effect mon the Dominion by-elections of the following day and the expected Dominion general elections later in the year. The election date was chosen for that purpose.

The University of Toronto Alumni anese were seriously carrying on a which meets twice a year for dinner | war. and a speaker were lucky to have as their speaker for the spring meeting, aggression can become very involved." Dr. Walter Riddell. Despite a heavy Said Dr. Riddell.

seem to dampen Dr. Riddell's spirits another is to tell them that they are warfare," Dr. Riddell said. "It is for and he gave an address which lasted a master race. more than two hours and was lis- "In Mussolini's mission to civilize must wake up to the situation. We tened to with interest. Miss Norma Routliffe, English and started the ball rolling. But the liance of the Western countries. These

History teacher at T.H. & V.S. intro- League had learned a few things from Russians are masters of the game and duced Dr. Riddell after Mr. A. Gillies the Japanese incidents and this time are nothing to pooh pooh - we must president of the Alumnae Association, it seemed as if something might be face it - it is the most real thing we announced that Dr. J. B. McClinton done. But they said they couldn't have to face today.' would ramble through the minutes o see any blame on either side. the fall meeting.

Dr. Riddell, who is now a professo at the University of Toronto, began by saying that he was interested in the Porcupine Camp from way back He said he had married the daughter of Murray Clark who wrote mining law books in Ontario and invested all his money in mining stocks.

Turning to the international field privilege to represent Canada at th abroad. Having travelled widely broad he said that he had seen many things which had influenced his think- stop him. I got up in the League and ing on world affairs.

"We have all gone through two war and we know what aggression is," said. "You've heard about the atom bomb, asphixiating gas and bacterialogical warfare. Aggression is vading the area of influence of another country and is as old as history.

man has used psychological warfare, of stopping Germany was then gone Machiavelli systematize the methods These aggressors are a serious lot an

different problem. The nations had to hind the smoke screen.

round the League Covenant. Any in advance. threat of war became the interest of Chinese. The Japs moved into Man- war. would not be convinced that the Jap- were merely beginners."

"The techniques of psychological

rainfall more than 100 members and "The technique takes many forms. "This is a much cheaper way than guests were present to hear this em | One of them is to tell th epeople that

Africa the Walla, Walla incident are beginning to get a defensive al-

and warned them that many things tional and they believe they have a would happen if they did anything but he had had it changed to read tha aggression in Europe was the onl reason for League sanctions, leaving him free to carry on his war against The Ethiopians.

"I was much annoyed about the sanctions," Dr. Riddell declared, "they lacked the very things that would said that oil sanctions would stop him. Then the fat was in the fire. Mussolini had a fund set up to buy up the delegates and was able to influence them all but Anthony Eden Eden later had to resign.

"I was called the tool of Anthony Eden and I could do nothing." Said "From the time of the Trojan horse Dr. Riddell bitterly. "The last chance of psychological warfare in his book they won't start until they think that The Prince which was studied closely they can win and once started they by both Hitler and Mussolini and the are very hard to stop. The psychological technique gives the aggressor keep the world at peace," said Dr. "The League of Nations created a time to do other necessary things be-

pacify public opinion and they be- "Hitler made all sorts of promise came very adept at it. This warfare to Chamberlain. His idea was to tal was called Psychological Aggression. one thing at a time and Chamberlain The Sino-Japanese war showed the paper was all a part of the technique great skill of the Japs in getting a- | These techniques are thought out well

What caused the breach between the League but pooh poohed any idea Russia and Hitler were the demands that the Japanese were using incid- made upon Hitler by Russia. Hitler ents to cover up the fact that they decided that rather than give in to a reason - we couldn't have a league were taking over the county from the the Russian demands he would go to if it weren't unanimous with all the and nations.

churia while the League delegates "Russia now controls all the count- "If we have psychological aggreskept saying that it was just anoth ry which they had demanded from sion for the good things of life incident." Even though Dr. Riddell Germany. This was worked by psy- Christianity for example - we will was quite sure what the Japs were chological aggression at which the need more than just the machinery. up to, the senior delegate for Canada Russians are past masters, the others Probably why the United Nations

Dr. Riddell mentioned Himmler's speech before his death when he said: "Next time we'll plow our furrows deeper." The Russians, he said, are plowing much deeper.

speaker. The weather didn't they are a great civilizing force and atom bombs as I am of this kind of the control of men's minds and we

"I look upon Moscow and the Sov-"Mussolini made up other incidents, lets as the greatest competitors we Italy was declared an aggressor and have today. No country in the world pressure was brought to bear. Mus- believes more in its destiny to soline then used the fear technique rule the world. They are internaplan for the world and one that will A treaty was made with Mussolini be only good when they have the world to work in,

"In business we try to put out a better product but it is hard to convince many people that our way of life is a better thing."

Dr. Riddell then suggested that what we needed was a better information service to tell the people what is being done.

"I found low wages and many children starving.We are not perfect but we should get the Russian attitude that it is our manifest destiny and to tell the world that they will get more out of our way of life than out of the Communist system.

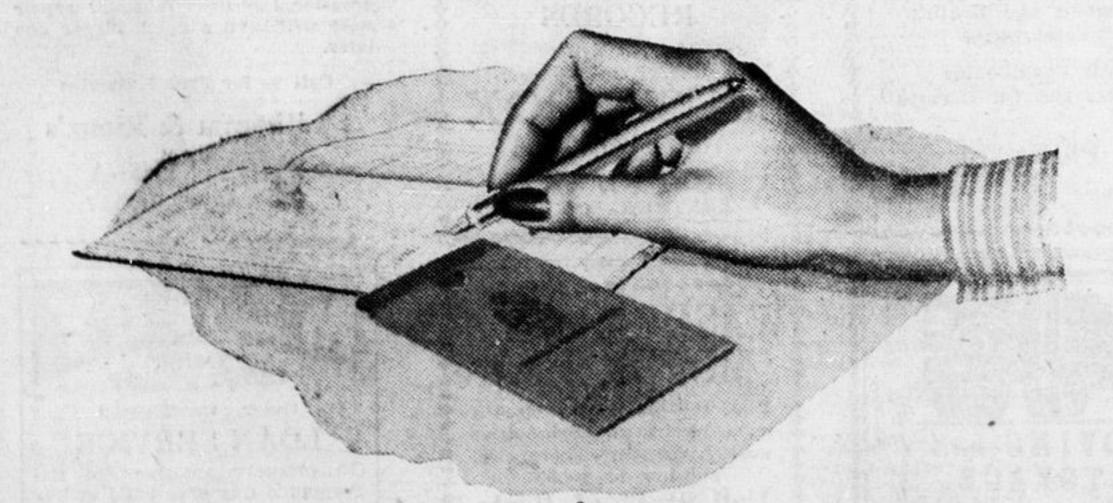
"The labor and socialist groups in Europe are the best fighters against Communism. They don't want ultra capitalism or North American Capitalism but they do want to work out their own ideas.

"It isn't charters or covenants that Riddell in answer to a question, "What is your opinion of the success of the United Nations?" Said Dr. Riddell: "It is whether or not the nations will carry out their covenants or have the power to carry them out."

"The United Nations is a great sounding board for those interested in psychological warfare," he said "If we don't back it up now we are bound to fail. The veto is there for

(Continued on Page Three)

Don't try to save too much



It may sound like unusual advice from a bank. But it's based on our experience with thousands of depositors, and we think you'll agree it's sensible.

The simple secret of saving is regularity . . . deposit money regularly, and leave it there until you have the amount you want for some specific purpose.

If, on the other hand, you try to save more than you can afford it becomes not only a burden, but an impossibility. You find you have to miss one or two deposits, you find yourself drawing out your savings for some current need.

Decide on a sum you can afford, make your deposits regularly, and enjoy saving!

THE BANK OF NOVA SCOTIA

W. Long, Manager, Timmins, Ont., Pamour, Ont.



Ottawa boasts its best tulip display in years and with her tiny watering can it would take Diane Boucher a long time to water the 400,000 Dutch blooms that enrich the natural beauty of the driveways and parkways of the Canadian capital every spring. Manyof them are a gift from Juliana of the Netherlands, Planning and planting of vari-colored designs are carried out by the Federal District Commission,