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rabbits. These drums carried devices

scientifically designed to produce a cer-

tain amount of quartz dust under fully

controlled conditions. In one group the

rabbits got a straight quartz dust; 111

the other by the addition of aluminum

The importance of this conclusion can

scarcely be over-emphasized, particu-

larly when it has been noted that

aluminum in metallic form has no in-

given practical application has not been

decided. It would appear to be feasible

purpose or than an inhalation at regu-

lar intervals would serve. In any event

the important point has been estab-

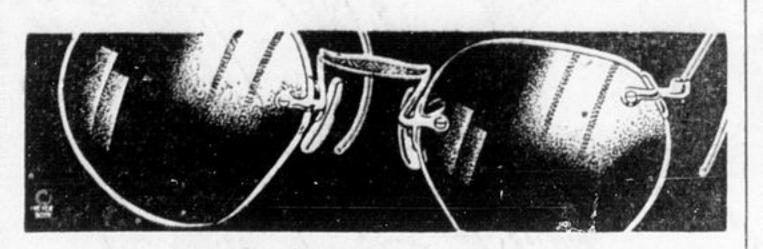
lished that aluminum will halt the con-

dition and will prevent it in fresh sub-

experimentation was done at the Mc-

Until recently the bulk of the animal

jurious reactions.



Review of Discovery by McIntyre Experts

(Continued from Page One) In Ontario, with an average of 8,500 balls in the quartz charge a small men employed underground in the amount of aluminum dust was created period 1926 to 1936 there was an aver- and careful check was kept of the reage of 36 silicosis cases per year allow- sults. Rabbits were used and the lungs ed by the Compensation Board and in of these animals sectioned. The pathothe period 1932 to 1936, with 10,000 men logical work was done by Dr. Irwin at underground an average of 18 cases per the Banting Institute. The net result year. The incidence of silicosis is ap- confirmed the first experiment; those proximately one half of one per cent. animals which breathed the metallic A conference, some years ago, between aluminum showed practically no silithe Ontario Department of Health and cosis while those dusted with quartz the Workmen's Compensation Board only showed well developed silicosis. led to the silicosis provision of the Compensation Act. Mining companies have since paid separate assessment for accidents and silicosis. Mining also became unique with special examining

A paper telling of the investigation by Denny, Robson and Irwin, read recently before the Academy of Medicine, is published in full in the current issue the tamping of drilled holes, to dissemof the Journal of the Canadian Medical Association. In discussion following by explosion. It may be possible that its reading, recognized authorities on injections periodically would answer the the subject stated the discovery of Denny and Robson was the outstanding contribution to date in silicosis research and indicated a cure for a condition which is recognized as being perhaps the most important industrial ailment. Tests are being continued to find the most satisfactory method of applica-

Five Year Fight

The cause of silicosis is the inhalation of fine, freshly broken quartz par ticles into the lungs, where, it has now been definitely determined, a chemical reaction is set up through the dissolving of the silica in the body fluid, causing fibrotic changes in the lung, which with certain changes that occur may predispose the sufferer to tuberculosis.

The investigators started in November, 1932, at the McIntyre mine in Schumacher, Ontario. It was decided to carry out tests with animals at the mine in a manner that would duplicate as far as possible actual industrial conditions. Fifty guinea pigs were placed in the crusher house tunnel of the mill where a considerable quantity of fine dust containing about 35 per cent. free silica was being constantly produced. These animals lived in the atmosphere for periods up to one year and while on autopsy large amounts of dust were found in the lungs not a single case of silicosis had developed.

The next step undertaken was a test of the factor of mine gases in the production of silicosis; the results were inconclusive.

The Discovery

Accepting the Gye and Purdy conclusion that chemical reaction and not the presence of silicious materials was responsible for fibrosis it was then decided by the investigators that the dangerous silica particles contained in the lungs are under five microns in diameter. It was assumed that, if the solubility of the silicosis material could be reduced sufficiently by the addition of some non-toxic element or compound the usual fibrotic response could be modified. Various elements and compounds were then investigated and on March 4th 1936, Denny and Robson discovered at the McIntyre mine that the presence of small amounts of metallic aluminum almost completely prevented silicious material from passing into solution.

First Tests

Animal experimentations were carried on from June 10th, 1933, and on March 4th, 1936, "dusting" a group of rabbits with quartz alone and with quartz to which a small amount (less than one per cent.) of metallic aluminum had been added was begun. The animals were sent at various times to Dr. Irwin of the Banting Institute at Toronto and upon sectioning it was found that all the quartz dusted controls showed a picture varying from early to well established silicosis. The animals subjected to silica dust containing metallic aluminum showed either minimal or no fibrosis of the lungs. What was equally important from the viewpoint of the investigators was the fact that no damage was seen in the lungs or other organs that could be attributed to the presence of aluminum. The heart, kidneys, and liver appeared to be quite unaffected. The conclusion was that silicosis was inhibited in this small group of rabbits by the admixture of less than one per cent.

of metallic aluminum. The experimenters then expanded the test. Special drums were built for the

special meeting of the Academy of

"It affords us real pleasure to record that the experimental work, above described, was made possible by the enthusiasm of R. J. Ennis, general manager of McIntyre Porcupine Mines, Ltd. and by the financial support of the same company, supplied on the recommendation of its president, J. P.

"We would particularly express our appreciation of the assistance so generously proferred and supplied by and through the good offices of Sir Freder- ing ick Banting and Dr. W. R. Franks of the Banting Institute, and finally we would record that same appreciation tleman had the honour of forcing the of the splendid work and dependable results provided through the efforts of F. Bremner, chief chemist of the Mc-Intyre Porcupine Mines, Ltd., and H. L. Research.

One of the features of the Denny- get the work under way. care taken in the trials, was the de- not only will the new building serve as pital following the formalities. vising by Dr. Denny of a method of producing a pure quartz dust. The ordinary method of producing it was to either crush quartz in a steel crusher or to grind it in a metal cylinder. In either method steel came in contact with the quartz and there would of necessity be some iron content in the resulting dust. Dr. Denny lined a box with quartz slabs and loaded in pure quartz fragments, rotating the whole. The resulting dust could not be anything but pure.

Dr. Chas. H. Hair, president of the Academy of Medicine before the members of which organization the Denny-Robson paper on silicosis was read, when interviewed by The Northern Miner was emphatic in his declaration that the two investigators had made a scientific discovery of note. "It is a very important development and it settles for all time the question as to whether silicosis is the result of a chemical or mechanical process. It has been proven that the chemical reaction set up in the body fluid by the dissolved silica is responsible for the condition and not the irritating action of the particles in the lungs."

Silicosis and Tuberculosis

Just how the new discovery will be to include the metallic aluminum in cal officer for Class 5 Accident Preven- | tor. tion Association and this class includes inate the metal with the dust caused is seldom fatal.

. is far more prevalent in the Northern | spots.

The paper describing the experiments and their conclusion was read at a Turning of First Sod for Medicine in Toronto three weeks ago. The co-authors, in conclusion, said: New Residence for Nurses

Mayor had Honour of Turning First Sod of New Hospital Building on Monday. To Provide Also Maternity Wards and Special Accommodation for Children. Interesting Ceremony.

the first sod which officially started the construction of the new combined Nurses' Residence and Pediatric Build-

The ceremony took place at 4.00 p.m. Monday and His Worship Mayor Bar- ing. first shovel into the earth, which soon and carried away in powerful trucks.

Collins, of the Department of Medical the mayor and dug heartily at the hard Cloutier and Dr. R. LaHaye. earth as if she could hardly wait to

Robson experiments with rabbits and "It is a realization which is really music for the ceremony guinea pigs, indicating the scientific becoming true," said the mayor, "and

Quiet dignity marked the turning of a home for the nurses but it will be accommodation for the child patients." Following Mayor Bartleman and Sister Liguori, many other interested citizens took their turn at the shovel and threw away the cold earth which wil

scon be replaced by a beautiful build-

Among those who took part in the ceremony were: - Mrs. J. P. Bartleman will be dug up with large steam shovels | Sister Anslem, Dr. H. H. Moore, D. R. Franklin, Father O'Gorman, Walter Sister Superior Mary Liguori followed | Ecclestone, Father Theriault, Father

> The Lions Club Boys Band, under the direction of Fred Wolno, provided the

More Road Contracts

Some North Land Work.

Hon, T. B McQuesten, Minister of Highways, on Monday signed highway construction contracts with a total value of \$1,700,000. The contracts were signed by the Minister on his sick bed in Hamilton.

Seven bridges are included in the program, together with 4.5 miles of concrete pavement, 75 miles of grading, and 2.75 miles of penetration macadam. Largest contract, grading Matheson to Shillington, Northern Ontario, goes

to McNamara Construction Company. Three miles of concrete paving near Aylmer is awarded to the Scott-Jackson firm. Grading from Northbrook to Cloyne is to be done by C. V. Billie

mining areas than is silicosis, despite Dr. Hair, apart from his connection the large number of men engaged in with the Academy of Medicine is medi- the mining industry," stated the doc-

The Ontario Mining Association has industrial diseases, hence his interet in for years been fighting silicosis, Dr. Pembroke, Shea and Shea. silicosis. He points out that anyone ex- Hair added. Large sums had been spent posed to silicious dust is liable to con- in improving ventilation, masks had tract the condition. Silicosis, he states, been provided on certain jobs, wet drillis not a disease but a condition for | ing had been introduced, periodical which there is no known cure but which | X-ray examinations had been insisted upon and physical examination centres "Does silicosis cause tuberculosis?" | had been established. An expert en- gineer is in the service of the Associa-"No. It predisposes the subject to tion, continually testing the dust contuberculosis but does not directly cause tent of underground workings. Methods Intyre mine but now this phase of the it. On the other hand, a person with have been worked out to determine May issue says: "There are many ways work has been transposed to the Bant- tuberculosis is highly susceptible to sili- with great exactness the dust count ing Institute in Toronto, as it is deemed cosis. I may also state that tuberculosis and thus indicate relatively dangerous structed house is conducive to health.

Awarded in Ontario | County. Sixteen miles of gravel mulch work. Bracebridge to Port Carling. Muskoka Lake district, will be done Hon. T. McQuesten Signs by Rayner Construction Co. Another big grading job, Vernon to Metcalfe Contracts on Sick Bed. Corners is awarded to Clyde Construc-

> miles of concrete paving at Beachburg village, Dibble Construction Co.; grading No. 3 highway in New Glasgow, J. E. Wainwright; 1.6 miles south of Vernon to one mile north of Metcalfe, including two bridges. Clyde Constructicn Co.: 2.5 miles south of Wallaceburg, Sterling Construction Co.; miles. Wasaga Beach to Elmvale, Mc-Murchy and Armstrong, Belleville; road extension, east to C.P.R. crossing, Roadbuilders Ltd.

Little Current ferry, Goldie Congrading, three miles, Rayner Construction Co.; regrading between Fort Frances and Emo, 10 miles, the John East Co.; grading between Apsley and Burleigh Falls, C. V. Billie and Son; Otto Township, overhead to Kirkland Lake Road. Dominion Construction Co.; widening Cataraqui bridge, William Dillane and Son: two bridges at Vienna. Johnson Bros.; two bridges west of

Build a House for Health is Advice to Home-Seekers

Life and Health, the national health journal published at Washington has been running a series of articles on home building as it affects health. The writer, Dr. Hubert O. Swartout, in the in which a properly planned and con-I shall mention a few that are out-

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cold, moisture and dryness. It makes than is the common practice in cities. provision for an adequate supply of the right sort of light and air. It has facilities both for bathing and for exercise. It ensures a reasonable degree of quietness. It is vermin-proof and insect-proof. It has safeguards against home accidents."

The article proceeds to enlarge upon these points with practical suggestions. In a preceding contribution he dealth with "Choosing a Homesite" in which he sumarized the health requirements for an ideal home that depend largely upon location. "Among these," he points out, "are proper drainage, light, ventilation, water supply, freedom from harmful dust, fumes and noise, protection from extremes of temperature suitable distance from the place of work or home transportation facilities or Other contracts awarded were: 1.3 from markets, the view and type of neighbourhood." He favours country or suburban lots, but says: "If one must build a home in the city, the larger the lot the better, other things being equal; and a corner lot will ensure more light than one elsewhere in the block. But not all corner lots are equally good. The best corner is the one which allows the windows of those rooms that need the most light to face toward the south and the west. Such sites are expensive, it is true; but a struction Co.; Sowerby to Thessalon, health insurance, it would often be a

standing. Such a house protects its good plan to spend a little more for occupants from extremes of heat and the lot and a little less for the house

> Globe and Mail:-Fort Erie cannot get a dog-catcher. This is an unattractive occupation, but here's a chance for some one tired of unemployment. There will be plenty of activity, as the town has no equipment for the work, and his quarry, no doubt with the dog's friends in pursuit of him.

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