in metallurgical industry, are fully described in Dr. Woodman's report on the Iron ores

In view of the facts stated, it is evident that, An enting of the facts stated, it is evident that, A method of treating of timber, known as the known that the process the idea is to make the timber in water.

Mr. W. F. Jennison, has been for some time encontain the timber to be treated will do, and the water gaged in preparing a report on gypsum in N. S. From the following preliminary report the scope of Mr. Jennison's work may be guessed at :

"Gypsum in the provinces of Nova Scotia and New Brunswick has been known to exist since the discovery of the country, and the deposits have been operated to a more or less extent for nearly a century

The development of this mineral in Canada to-day, is only in the primary stage, and has not made the same progress exhibited by other countries.

The operations are carried on almost exclusively by American capital, and the product of the quarries is shipped to the United States in a crude condition for

The deposits occur as huge masses, some of which cover square miles in area, having exposures of over 100 feet in height—above water level—and extending several thousand feet. They may be considered practically un-

crease in the production of gypsum, and in the demand occase in the production of gypsum, and in the production of the various articles manufactured from gypsum. Production in the United States increased over 500 per cent. This fact, and the promising outlook that the demand will continue to increase, make these deposits of great economic value, and one of the most important

Realizing these conditions, and perceiving that the comparatively small development of these deposits is due to the lack of information already obtained, and also that it is very important our own citizens and all others interested, should have full information as to the extent and uses of gypsum, and demand for the many products manufactured therefrom, I was instructed July 16, 1908 to prepare a monograph showing:

1—History and distribution of gypsum deposits. Variety and distribution of gypsum. 2—The trade history of Canada.

Statistics and graphic charts of gypsum product-

3-Origin of gypsum, general theories. 4—Deposition from sea water, by thermal springs by the action of iron pyrites on the carbonate of lime. 5—Gypsum as a fertilizer—Its uses among ancient
people. The experiments by well known authors. The-

ories of action on gypsum as a fertilizer. 6—The chemistry of gypsum, plaster of Paris, cement plaster, methods of analysis,

7-Technology of gypsum, General and physical properties.

8—General requirements of a plaster mill, with cuts and specification and costs of construction. Chemistry of the manufacture of plaster. Retarders accelerators. 9—The methods of operation, with costs

10-Markets, and value of product, etc. etc."

Nova Scotia will soon be in an exceptionally fav. ry Altken method, is now used at many collierces. In our able position, as regards official information this process the idea is to soak the timber in water, on the iron, coal, and general mineral resources raised to a temperature of from 190° to 200° Fahr., containing enough common salt to form a thoroughly

The timber should be free from bark, fairly well

should be heated by exhaust steam, or otherwise.

The time necessary for completing the process largely depends on the nature and size of the timber, but two days will, in general, be sufficient.

By sawing off a small part of the timber being treated, it can be seen whether thorough penetration

When the timber is removed from the treating tank it is soft, and not in a condition for immediate use, stacked in the open air.

It is dried by being put into a covered shed, or

The cost of treating timber by this process averages in Great Britain, about one penny per cubic foot.

Some of the managers of the largest collieries in Scotland, who have adopted the process write as fol-

limited, with a quality unsurpassed anywhere in the regarding the Aikkea process for treating the timber. for use in mines, states that in his five years' experience he had never seen the least indication of decay in any timber so treated. About four years ago, gears (every alternate one treated) were put in the main return airway of the No. 3 Pit Ell coal seam, Cadzow About a year ago, all the untreated gears were replaced, owing to decay. still in use, and in good condition. The treated timber is contention that the Aitken process reduces the strength As regards the of the timber, he had never seen anything to make him think this was the case. Indeed, he had stopped using larch timber, and now used treated Sootch, or foreign

Mr. Ferguson, manager Benarty colliery, Fifeshire, writes that the Aitken process has been in use at the Lochore and Capledrae collieries for upwards of six years, and during that time it has proved a great saving, not only in wages renewing broken timber, but alcontaines and graphic cuaris of gypsum products of the Canturn airways for six years, and was quite sound. If adding the showing extant of damaging and photo-this wood had not been treated it would have been reaches showing extant of damaging and facilities the placed twice during the above paried. No tree which so in the price of wood used, which is now nearly all foreign timber. The treated wood had stood in the reaging gypsum deposits, with maps and photo- this wood had not been treated it would have been re-graphs, showing extent of deposits and facilities placed twice during the above period. No tree which had been treated had shown the slightest decay during

Mr. Carlow, managing director Fife Coal Company, Leven, Fifeshire, writes that the Aitken process has been in use for four years.

The following experiments have been made with the process: Two pieces of ordinary fir, 3\(\frac{1}{2}\) in diameter in diameter in the process eter and 3 feet long, both weighing 10 pounds before being treated, were selected. One of the pieces was treated by the salt process and the other was not. Af. ter being treated it weighed 12 pounds. taken underground and placed in a return air course, and after cleven months were examined and re-weigh-Both were ed. The untreated timber then weighed only 5 pounds, whereas the treated one weighed 12 pounds, being ex-