long, and 50 or 60 feet broad, and is so arranged that five vessels can lay alongside and load at the same time. To effect this, the wharf is divided as it were into two sections, the half of the platform being raised about four feet above the other half or nearest the shore half. The loaded cars are brought along the railway on the more elevated half, discharge their loads at shunts fitted up with great ingenuity, and send them in a few seconds into the ships' holds. The emptied cars are then moved to the end of the wharf where a turn-table sends them out to the lower platform where they are carried back to the Colliery. Every part of the massive structure astonished the whole company of tourists. There is nothing, in fact, in Nova Scotia, with which to compare it. The fact that it contains about 20,000 000 ouble feet of timber, and cost about \$35,000 sufficiently indicates the magnitude of the work. Walking up to the head of the wharf, we are delayed for an hour or more, waiting for the locomotives, but start at length and pass over seven and a quarter miles of good railway, running into the very heart of the wilderness of Pictou County, then suddenly coming upon a cluster of buildings, with neat views of houses near by, and some distance off the Superintendent's house, gaily decked with neat views of houses near by, and some distance off the Superintendent's house, gaily decked with neat views of houses near by, and some distance off the Superintendent's house, gaily decked with neat views of houses near by, and some distance off the Superintendent's house, gaily decked with neat views of houses near by, and some distance off the Superintendent's house, gaily decked with neat views of houses near by, and some distance off the Superintendent's house, gaily decked with neat views of houses near by, and some distance off the Superintendent's house, gaily decked with neat views of house such three hundred persons at down to a cold collation of a most sumptuous kind. After disposing of the viands as only really h

icit u, responded.

After repeated call, Mr. Howe rose, and concluded avery able effort by proposing the health of Sir Wm.

Logan.

The distinguished Geologist spoke hopefully of the coal district he was examining, declared that Nova Scotia was, of all the places he had visited the most abundantly blessed with remarkable mineral deposits

abundantly Diessed with remarkable mineral deposite of great importance.

A. Longley, Esq., Chief Railway Commissioner, made a very happy speech in reply to a toast with which his name was coupled. Several other speeches followed, but we have no time at the present to refer

to them

to them.

The colliery was visited by some few of the tourists, but the time was too limited to attend both to the coal and to the cold collation. Those who visited the coal seams spoke of going some seven hundred feet under the bowels of the earth, finding coal seams nearly 20 teet in thickness, works capable of hoisting to the surface a thousand tons of coal a day, and of shipping the same quantity.

the same quantity.

The proceedings of the day were closed by a ball in the Masonic Hall, Fictou, which was a truly grand and pleasant affair.

PORT HOPE RAILWAY EXTENSION .- The Guide says:-On Monday evening last the Town Council says:—On Monday evening last the Town Council unanimously ratified the agreement between the town and the Port Hope, Lindsay and Beaverton Railway Company, the same having been approved of by a meeting of the rate-payers previously held. By the terms of this agreement the town gives \$30,000 in harbour debentures, bearing interest at the rate of 8 percent per annum, in consideration of which the Railway Company agrees to extend the railway to Beaverton by 1st September, 1870. A bill to legalize this agreement is to be submitted to the Ontario Legislature at its nextsession. We understand that the work is to be proceeded with at once, now that Port Hope has supplemented the grant made by Thorah some time since, and that it will be pushed through as rapidly as possible, it being the intention of the Company to have the work completed and the frains running on the extension long before the time specified in the agreement. The Canadaon says the survey of the life of railway from Lindsay to Beaverton is being actively proceeded with, and will be finished in a short time, when the work of grading, &c., will be commenced. A. T. Williams, Esq. the able Superintendant of the road, with his usual promptifue, has, during the past week, been over the extent of the line to Beaverton, noting the primary phases of the undertaking, and making the necessary preliminary arrangements for its rapid completion. The Company being satisfied with the action of Port Hope in the scheme of extension, have made a proposal to the town of Lindsay, and one which, we furst, will be acceded to by the Council and people of that place. unanimously ratified the agreement between the town

## COMPARATIVE VALUE OF CROPS, &c., IN NEW BRUNSWICK.

GENTLEMAN in Westmoreland, referring to a short article published in our columns on "Hop" culture," favours us with some ideas as to the comparative value of crops. Barley is a very sure crop in that part of the country, seldom or never failing. Oats come next. Wheat is the most profitable grain when it is not struck with rust or weevil. This year it is good in Westmoreland and in Northern Counties, but occasionally it proves uncertain. It would, perhaps, always be well to sow a little wheat, as a few barrels of home-made flour, raised by each farmer, would add greatly to the wealth of the country, should there be a failure of the crop the loss would not be very serious; of roots, potatoes are the most valuable, but they, like wheat, are a little uncertain. This year they are good. Turnips come next. The winters being long no farmer should neglect to plant a considerable area with turnips. Cabbages, beets and carrots are profitable, or would be if Westmoreland had a better market. Hops might be raised in great abundance in that county. They grow luxuriantly and raise large returns; few crops more so, our correspondent, some time ago, visited the Eastern Townships of Quebec and found hop-culture there very prevalent, and very profitable.

We may add that the manufacture of sugar from beets ought to occupy much attention here. France, in the face of many difficulties, has succeeded in making the manufacture of beet sugar a most important branch of industry, and we notice that this is being done in some of the Western States.

Then there is the important department of stockraising, one department of which, at least, sheepfarming, has never been turned to proper account in New Brunswick. Long as the winters are, with proper care, the means of feeding sheep profitably in winter might be provided. We understand that Grand Manan is one of the best places in the Province for sheep-walks, as during a greater part of the year the sheep can find vegetation on that island. No doubt there are other localities which present considerable advantages for prosecuting the same branch of industry. It is certain that by culture," favours us with some ideas as to the comparative value of crops. Barley is a very sure crop in

## A NEW ELECTRIC LIGHT.

THE marvel of the town just now is an electric light which is displayed every night from the French which is displayed every night from the French steamer St, Laurent, of the Generale Transatlantique Company's line at the foot of Morton Street. This light is more powerful than anything of the kind ever before exhibited, and when its rays are concentrated upon anything, either upon the shore or the river, the object is illuminated as much as if it stood in the light of the sun. The inventor is M. Berlioz, of Paris, who has received permission from the directors of the French Steemship Company to place his apparatus on board the St. Laurent, in orper to show the adaptability of the light to the purposes of ocean navigation. Captain Bocande, of the St. Laurent, is enthusiastic in praise of the invention, and exhibits it to inquirers with great cheerfulness. He has tested its power in the docks at Havre, in the roadstead at Brest, on the voyage across the Atlantic and at the pier in this city, and feels convinced that one of its uses on steamships would entirely prevent danger of collision at sea. The brilliant rays of light will penetrate the densest fog as well as the blackest darkness, revealing the course of the vessel so great a distance in advance that ample time would be given to change the direction of the ship if an emergency made it necessary. Another advantage of the light is to be found in the fact, that by its use the hold of a ship, or the engineroum may be illuminated at night, and the work of loading and repairing, or any other kind of labour, be carried on with as great importance in the management of a steamship line, this is a feature of much value in the invention. In addition to these good points, there is a third which is also of great advantage. By means of the hight a code of night signals might be established, which could be interpreted with greater case than any existing system of day signals. The light is exhibited from the bridge of the steamer, and being set on a pivot, may be turned in an instant upon any part of the ship, aloft as well as on deck, upon buildings on shore and upon cr steamer St. Laurent, of the Generale Transatlantique Company's line at the foot of Morton Street. This

## THE PATENT MONOPOLY.

The Effects of the Patent System on the Progress of Sciences, Arts and Manufactures.

T the meeting of the Bristol Association, in the sec tion of Economic Science and Statistics, Mr. H. Direks read a paper on the Patent Monopoly, as affecting the encouragement, improvement and progress of sciences, arts and manufactures, of which the follow-

Fatent law is based on the principle of considering it to be of public advantage to protect the secret invention, whatever it may be, by securing to the inventor to the sole use of his invention for fourteen years, under letters patent granted by the crown. It is thus that patents are now, as of old, obtained on the payment of certain fees, and the lodging of a complete station of the control of the control