man, who has all the labour, trouble, and great sell. The agricultural classes, here and in the risk of bringing his lumber to the shipping ports British Isles, are possessed of a degree of of Canada. The price he obtains for it at these power, if they will only exercise it unanimously ports is very trifling in amount, compared to and judiciously, that will be much greater and what this same lumber ultimately sells for to the more irresistible than was ever possessed by the English consumer, and all the amount of this Corn Law League, who have now dissolved enhanced value and price goes into the pockets themselves on obtaining the repeal of the Corn of ship-owners and merchants. So that in reality Laws, and are perfectly content that all other the tax paid by the people of the British Isles protective laws should be retained. Let agriculupon our timber is not paid to us, but to parties turists now unite and demand free-trade in all who are fully protected by the English Naviga-other commodities as well ast in their own protion laws, and who are resident in the British ducts, and they must succeed in obtaining this Isles. It is very easy to say to the people of common justice, which is their due. They desire Canada, that the favour bestowed upon our pro- not to tax other classes for their benefit; but ducer has been a constant tax upon the British neither will they submit to be taxed for the people; but we conceive that it is as easy of benefit of others. If by the late proof to show the contrary. change in the Custom House laws all protection LECTURE ON THE CHEMICAL COMPOSITION and encouragement is taken away from our products, why should we be prevented from By J. C. NESBET, F. G. S., M. C. S. L., &C., OF THE AGRICULtaking our produce by the cheapest means of transporting them to a market of sale. We cannot perceive the justice of saying to us-"It is true we have taken away all protection and encouragement from your products, but at the same time we must insist upon being allowed to transport all this produce for you at our own terms, and for our own exclusive advantage. You cannot be allowed to employ any other means of transport but protected British shipping." Now this is exactly the sort of free-bonic acid gas—which you now see generated from trade that we think so objectionable, because it chalk, is the same that is produced by the fermentation is not free-trade, and is not allowing to buy in the cheapest and sell in the dearest market. Indeed, unless all restrictions are done away, as is heavier than the atmospheric air. Now, I will well as the duties on provisions, we shall be in a quantity to extinguish this candle. This gas being worse position than foreigners, because we can nearly twice as heavy as the air, I can pour it out of only bring our products to the consumers by the one vessel into another with the greatest ease. I employment of British ships that are completely employment of British ships that are completely protected by the Navigation Laws of England, and who can in consequence charge what they please for transport and always have done so please for transport, and always have done so. please for transport, and always have done so. I will now show you a property which this substance. The consideration of these matters is now forced has of giving to lime water a white colour. You upon us by the changes recently made in the perceive that as soon as I pour a little lime-water into upon us by the changes recently made in the the vessel containing the carbonic acid, there is a Custom House Laws. We did not seek these changes, and those who have made them are accuracy precipitate; and this precipitate is exactly the changes, and those who have made them are accuracy precipitate; and this precipitate is exactly the changes. changes, and those who have made them are accountable for all the consequences that must inevitably follow. It is absurd to pretend thatso great gas is given out as that which was evolved by putting an injustice would be expedient as to do away the acid upon the chalk. The very gas which the vegetables require for their growth is given out from all protection to the products of agriculture, and the lungs of animals, as you will see by a very simple retain protective duties upon every other article experiment. I will take this glass vessel of lime-water, of consumption, and upon the ships that carry into it; you see that there is the same white precipiall description of products which we may buy or tate as there was in the other experiment—a conclu-

AND NATURE OF MANURES.

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(Continued.)

The substance called chalk, with which you are all so well acquainted, contains a large quantity of this carbonate acid, which can easily be liberated by means of a stronger acid. I will liberate a little from this chalk. I will put some chalk into this jar with some water, and pour in some spirits of salt; and you will water, and pour in some spirits of sair; and you wait find that the gas will at once become liberated. This gas, I should tell you, will not support flame: you see perfectly well that this candle is now burning brightly; but if I pass the candle into the vessel of gas which is now being liberated from the chalk, it will at once be extinguished. This gas—this caracteristic gas—this caract to you how it is that this gas gets to the bottom of wells and vats: it is simply from this reason—that it have now poured some gas into this vessel, and you

red the carbonic acid, viz., carbonate of lime, or chalk. From the lungs of man, and other animals, the same