## AGRICULTURAL CHEMISTRY TAUGHT IN SCHOOLS.

At a late convention of parish school teachers in Sootland, Professor Johnston delivered two able lectures upon agricultural chemistry, the purport of which Thus by degrees the soil accumulated to such as were to show the necessity of having plants now grow. Such is the history of nearly agriculture taught in the common schools of that country. It is difficult to judge upon the end of a piece of metal, such as I am whether the tastes of the farmers of Can- doing just now, and in any way expose it to the ada would lead them to favour such a project or not, but one thing is evident, that blackness will disappear, and the soil will that other steps must be taken than these assume a color more of the substances of that which at present employed, or else much valu- (remains consists. If you take this portion of the able talent will be lost to the country .---The highest order of talent may be found as before. That portion of the soil which has among the yeomanry of this province, burned away consists of the remains of those vegetables of which I have speken; of those but unfortunately in too many instances, animals who have died and been deposited in the it is like the marble in the quarry. In a 'soil; and of the manures which have been applied new country like this, no effort should be what is called the organic, and the other portion spared in giving the young a plain prac-tical education, and for this reason we soils it exists to the extent of two per cent., in would advocate that those branches which will ultimately be practiced by the rising 'a piece of vegetable matter, and burn it, such as generation, should be taught. We are aware that this is a dry subject to many of the farmers of this country, neverthe-less we shall press it upon the attention of the readers of this journal because the of the readers of this journal, because the proportions of inorganic matter,-thus, meadow day will come when more interest will be hay leaves nine or ten per cent. of incombustible matter. Again, as to the animal substances,— felt in this and kindred subjects. The take a piece of muscle, dry, and burn it, and you closer the subject of agricultural chem- shall find that the greater part of it will burn away, which is the organic matter, the remainder istry is investigated, the more interesting being, as in the soil and in the plant, the inorganic it will become. Every young man who and incombustible matter. Now, one hundred follows the plough should carefully read and other saline substances to the extent of one the following lecture, and if the truths per cent. of incombustible matter. Thus, the unfolded should not have the effect of animal matter, consist of organic and inorganic creating a thirst for a deeper draught matter; but there is this difference, that in the from this almost inexhaustible fountain, soil there is a larger portion of inorganic matter it would show most conclusively on the than in plants and animals,-in the latter, the part of the reader, that he sets a low val- greater portion burns away. I shall call your uation upon the noblest and most interesting sciences that was ever studied by inorganic matter consists of different substances, the agriculturist. This lecture being in such as silica, which forms a very large proporour estimation of such great importance, we copy it entire, and recommend it to the careful perusal of our readers.

Gentlemen, there was a time when this hill upon which we now stand was nothing but a naked rock of lava. That old lava gradually decayed, as modern lavas do, and crumbled down and formed loose matter on the surface, in which seeds of plants grew, died, and left their remains. you now see on the surface of this rock on which all the soils on the surface of the globe. Suppose action of the tire, you will see that part of the soil will grow blacker at the edges; by and by assume a color more or less dark, according to soil before it is heated and weigh it, you will find ; that after it is exposed to the fire it is not so heavy pounds of fresh muscle contains phesphate of lime three different substances, soil, vegetable, and attention now to the inorganic portion of soil. By looking at the table, you will observe that the tion of flint; alumina, a substance which forms a large proportion of pipe-clay; oxide of iron, which is the rust of iron; potash, of which the potash you get from the shops may serve to give you an