## Ddds and Ends.

 Our lives are full of codds and enFirat one and then another; First one and then another;
And, though we know zot how or
The wearer has $y$ master s skill, And proves it by this token. No loop is droppec, no strand is
And not a thrad is broken.
And not a shred is thrown aside So carefal is the weaver,
Who, joining them with wondrous skill,
Weares odds and ends together.

## LECTURES ON

Chemical Fertilizers
deliverad by prof. geo. ville
T PARM, 'VINCENXES,
frikised by jack $\&$ BLLL, Halifax Gentlemens: In our first meeting I endearored to show you the nature of the elements composing regetation. You remember that these elements are very unequally distribated in the dif. ferent oryans, or rather between choore passing
To complete this almost preliminary tudy we must now ask in what state we find these elements of aature, the source and cause of tertility of soil, under what form plants assert them, and ct upon the products of reztation II begin with carbon.
The quantity of carbon which enters into the composition of plants is, in
round numbers, from 40 to 45 per cent. Carbon, then, plays a prominent part in regetaticn. If, however, 1 add that in sgriculture it is not nceessary-that it Withont affecting the fertility of the self. - winl sppear to contradict myto prove it, permit me to remind you that the carbon of plants has its origin stmosphere is an an inexhsustible source to it. I need not, therefore, reat of tespectsis this omission will not be incon vanient; nevertheless I have determined to stct $p$ here and make this the object of a deep study. Why ? For two easons-bicause the explanation of history of scoience, but particularly because its stady will heip us to stow clearly the essential
The act which determines the assimLation of carbon is a simple phenomen on. Garbonic acia, formed rom carthes atmosphere. Here is produced a traly extraordinary phenomenon and one which we cannot imitate in oar la: borstonies without calling to our sid
the most porerful means of analysis st the disposal of ehemistry; this phenomenon the delicate tissae of the leaf performs without effecting its organiza-
tion. You will see, farther, that regetable respiration produces elfects opposite to bonic acid from the sir and return oxygen to it, while animals, who borrow explains the reason why the composition of the atmosphere is not ohanged by the incesssant drain made on it by piants and animals. Under this contioued though nosean conflict there is an order of phenomens ill more profocud sad you, becanse my eses therc is nothing more fit to unveil to you the true character of ag. ricultural products, and to show you how this grand act of regetable life, to which are most intimately joined the nost essential conditions of our exist nnee, differs from.

$$
\begin{aligned}
& \text { uman actity. } \\
& \text { General Rale. }
\end{aligned}
$$ tro equally indispensibie things-a firrt ause and a soure of forcit can be produced.

Whatever we do, the materisl in use experiences diminution which we strive to prevent, but canoot entirely avoid. The same in regard to the force expended. We make use of but a part of it-the rest is unavoidably lost.
repcat then, the product, which is the


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trading or bartering with my sons or paying them money for the products of my farm, as I vill not ratify any bar-
gains made by them and vill collect gains maaie by them and will collect
the pay for anything sold from off my

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