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W. C. MILNER, Proprietor.

CHIGNECTO POST AND BORDERER.

SACKVILLE, N. B., FEB. 14, 1884. LECTURES ON CHEMICAL FER-

Delivered by George Ville at the Experimental Farm, at Vincennes, France.

Purnished by Messrs. Jack & Bell, Halifax, N. S.

LECTURE I. GENTLEMEN: -Since 1861, I have

been in the habit of giving in a series of lectures the results of my studies on the means of husbanding and increasing the fertility of the soil, outside of those traditions conpast. My method belongs essentially to science, both in character with the content of the greater or less extent by breathing air they will all call, the Katkins and origin. For the country of course, they will all call, the Katkins and origin. For the country of course, they will all call, the Katkins and origin. For the country of course, they will all call, the Katkins and origin. vitiated by exhalations from the lungs, bodies and clothing of the occupants. The immediate effect of these poisons is to debilitate, to lower vitality, and which she can safely rely. My efforts have been directed to freeing it as much as possible from all theoretic formulas which are not become the econemy of nations, we feel with added force the importance of agricultural questions. Under this new rule a nation can have a sound presperity, but in prepertion as it surpasses those nations to whom its interior is thrown open, it

here bear witness. Entering on my prudences. subject under its new aspect carries my thoughts back, and not without emotion, to the time when my labors were first thought worthy of each couragement by his gracious Majesty. Many doubted the results, as my efforts were founded on the studies of the laboratory. The

interests.

As I have already said, our agriculture must increase her products if she would reduce their sect. The if she would reduce their cost. The if she would reduce their cost.

The other fact is that pure air is laws which permit her so to do return the antidote to this poison. The the antidote to this poison. The intricate problems of vegetation—in a word, to unveil to you the very elements of which plants are composed, since it is to these she must have recourse if she would increase the returns. In the composition of plants nothing is permanent. Their

plants nothing is permanent. Their elements experience, in different organs, certain movements, veritable migrations, whose order and succession arg-gregulated by fixed laws.

The structure of a plant depends on imponderable agents—light, heat and electricity. Now, to use these as auxiliaries it is absolutely necessary we know the effects of each. This can only be known by basing our deductions and laws upon the theories which precede them. The first question is: Of what is the substance of plants formed? From whence comes it? How do the combinations of elements which bemists show, operate?

Upon this point Chemistry is as a section of the term and the point of the late Reson in the point of the point of the late Reson in the point of the late Reson is been an auxiliaries of the point of the term and the combinations of elements which the point Chemistry is as a large.

Or all "blood purifiers." Combined with vigorous exercise to make it effective, it will care any custale case administant. "You are invaluable, Hickson; I have always said it," with a flesh of administant. "Show

Sulphur, Chlorine, Silicium, Iron, Manganese, Calcium,

In the fruit of a leguminose tact two distinct parts—the shell gallons compand the pea. The shell, which is in more immediate contract with the manifest how the plan is.

CHIGNECTO

Deserve Success and you shall Command it.

VOL. 14.-NO. 42.

SACKVILLE, N. B., THURSDAY, FEBRUARY 21, 1884:

those of a deciduous tree, being re-newed at a season least favorable

evaporation.

The following figures show oportions: Dried vegetable matter containing 100 parts mine

Sap-wood, Bark, Leaves, Deciduous leaves, Evergreen, Pea-shells,

Bad Air.

When a person has remained for an hour or more in a crowded and poorly ventilated room or railway car, the system is already contaminated to a imposed by the nature of the subject. Since commercial liberty has

whom its interior is thrown open, it must produce more and more cheaply. By what process can we obtain this end?

We will now seek it together. building upon the facts to which I burg hear witness. Entering on my

There are two facts that should be emperor thought differently, and the founding of the experimental farm at Vincennes is an additional proof of the enlightened solicitude of our sovereign for our sgricultural interests.

As I have already said.

would be immediately apparent.

The other fact is that pure air i

Baron, absorbed in his reading, said pressible surprise, in his manner as watches her retreat

Silicion, 100.

**National the Baron, not looking up, "take her Viscomia de L. P." "Ah," and the Baron, not looking up, "take her is doubtless a glook little Baron, not look land little Baron, not look little Baron, little Baron, lit

lected estate only because a long-forgotten sense of duty and a new steward have called him—is sitting with his hands before him, wonde ing, in a melancholy fashion, what on earth he is going to do with him-

self for the next month.

If, he soliloquizes, he even knew any one in the county! Of course, what Thistleton is doing now, and

"A lady wishes to see you, sir," says Hicksen, speaking in a respectful undertone from the doorway. "I sincerely hope not, Hickson," responds his master, lazily, without turning his head. "I really couldn't. you know. I have come down here, against my will, partly to escape all that kind of thing. And, having sacrificed myself, I insist on quiet."

"She says, sir—"
"I know all about it," with ar mpatient gesture; "just say I am ill, dying, dead, buried—anything, ill, dying, dead, but only send her away."

"I beg your pardon, sir," with an apologetic cough, "but she seemed so urgent, and I could not possibly take it upon myself to dismiss the lady in question. I believe you would not wish it, sir, if——"

lady, Hickson?"

"A lady, sir; quite the lady."

"Ah!—old or young?"

"Not old, sir; and not too young,

chemists show, operate?

Upon this point Chemistry is as clear as decided. She answers. Of fourteen invariable elements, which, for convenience, are arranged in two parallel series:

Organic Elements.

Intraces and theology Hickson, who then throws wide the door, and announces "Miss Carew," in his usual well-bred monotone.

Dagdale, rising from his seat with some precipitancy, makes her a deferential bow. There is extreme was admitted into his office.

We admitted into his office.

Organic Elements.

Mineral Elements.

M

be in the first organs. Evaporate quickest in the first organs. Evaporation is active in proportion to looseness of tissue and directness of contact with the atmosphere. Thus, we find more minerals in grasses than in trees, more in leaves than in bark, and more in bark than in sap-wood or in heart-wood.

In the fruit of a leguminose there to two distinct parts—the shell and the pea. The shell, which is in more immediate contract with the pea. The shell, which is in more immediate contract with the peas contains meet minerals. Following the same order, the leaves of an evergeen held fewer minerals. Following the same order, the leaves of an evergeen held fewer minerals than do grant and the peas. The shell form unknown cows should be boiled in order to destroy any possible germs of disease.

Wr. Dugdale, and have, I think, you know, says the kindly Major. "I have given it," says Dugdale. "Glad of it.—glad of it.—glad

gladly take all those fields, I speak about Clarissa, and I quite agree of that stretch to the south of us, with him."

such a little, the gray eyes fall, the little delicately gloved hand taps No doubt he will pluck up in a harry. "Have you spoken to Graham?" now this lease worry is at an end, but at one time I confess I thought asks Dugdale, who, just at this noment, could have soundly rated his Clarissa, was quite ill between grie over-zealous manager.
"No. We thought it better to

see you, yourself. Will you think look so sad, I suppose."

of it?" She raises her eyes again, "Well, no — not altogether," and regards him earnestly, entreat. mysteriously. ingly. "To me it would not so much matter," she adds, gently the place; he has been delicate of 1884 WINTER 1884 late, and all this anxiety preys upon him and retards his recovery. We him and retards his recovery. We have been good tenants; I would ask you not to dispossess us.

"I shall speak to Graham to-

morrow. Pray do not disturb your-self about; I promise you," says Mr. Dugdale, who is singularly pliable where beauty pleads, "you shall keep your home. Nobody shall dis-

"How shall I thank you!" exclaims she, with grateful warmth, rising. Tears of emotion shoue in her dark eyes. "I hardly dared signedly; "there is, therefore, nothing for it but to submit; I am incapable of argument under my present depressing circumstances. Is she," desperately, "a woman or a lady History?"

"I makes yourself happy, too. I "It makes yourself happy, too, I

A little shadow falls into Miss "Au!—old or young?"
"Not old, sir; and not too young, either."
"Neither old nor young. That generally means forty. Is she forty?"
"Dear me, no sir—nothing of the kind. I beg pardon, sir, I merely meant to imply she was a good deal more than eighteen."

A little shadow falls into Miss Carew's eyes. They droop.
"Thatk you—yes," she answers, a curious pain discernible in her tone. She bows slightly, and turns to the deor.
"Let me see you to your"—carriage he is going to say but head."

meant to imply she was a good dear more than eighteen."

"You are invaluable, Hickson; I tates. She certainly looks like a

without lifting his head, "I am at his eyes meet hers.

She is young—about three-and"Pardon me,' was the answer, "I am the Vicomie de L. P." "Ah," lently formed, of middle height, and the vicomie de L. P." "Ah," lently formed, of middle height, and the vicomie de L. P." "Ah," lently formed, of middle height, and the vicomie de L. P." "Ah," lently formed, of middle height, and the vicomie de L. P." "Ah," lently formed, of middle height, and the vicomie de L. P." "Ah," lently formed, of middle height, and the vicomie de L. P." "Ah," lently formed, of middle height, and the vicomie de L. P." "Ah," lently formed, of middle height, and the vicomie de L. P." "Ah," lently formed, of middle height, and the vicomie de L. P." "Ah," lently formed, of middle height, and the vicomie de L. P." "Ah," lently formed, of middle height, and the vicomie de L. P." "Ah," lently formed, of middle height, and the vicomie de L. P." "Ah," lently formed, of middle height, and the vicomie de L. P." "Ah," lently formed, of middle height, and the vicomie de L. P." "Ah," lently formed, of middle height, and the vicomie de L. P." "Ah," lently formed, of middle height, and the vicomie de L. P." "Ah," lently formed, of middle height, and the vicomie de L. P." "Ah," lently formed, of middle height, and the vicomie de L. P." "Ah," lently formed, of middle height, and the vicomie de L. P." "Ah," lently formed, of middle height, and the vicomie de L. P." "Ah," lently formed, of middle height, and the vicomie de L. P." "Ah," lently formed, of middle height, and the vicomie de L. P." "Ah," lently formed, of middle height, and the vicomie de L. P." "Ah," lently formed, of middle height, and the vicomie de L. P." "Ah," lently formed, of middle height, and the vicomie de L. P." "Ah," lently formed, of middle height, and the vicomie de L. P." "Ah," lently formed, of middle height, and the vicomie de L. P." "Ah," lently formed, of middle height, and the vicomie de L. P." "Ah," lently formed, of middle height, and the vicomie de L. P." "Ah," lently forme has, indeed, swallowed up all traces said the Baron, not looking up, "take extremely pretty. Her eyes are a clear, dark gray; her light brown doubt it all lay in her eyes! There

Clarissa's Choice.

It is growing dark. The fire in the library, although the time is early June, is burning briskly. A greyhound, a very handsome specimen of its kind, lies sleeping on the hearth-rug. There is a general air of comfort in all the surroundings, yet Mr. Dugdale—whose admiration for the country is not unrestrained, and who has come down to his neglected estate only because a long-forgotten sense of duty and a new loase—is that "I shall be delighted," says the Major, who, next to having some one dine with him, likes best to major, who, next to having some one dine with him, likes best to major, who, next to having some one dine with him, likes best to respect that him, likes best to dine with him, likes best to respect that him the sevent in dine with him, likes best to respect all that has been going on of late. "The question is, shall we get it? The new man you speak of—Graham—has, I gradens, enjeying a cigar before dinner, the Major grows communicative, and relates many things. Teuching on the Carews, he finds beyond it, and let it all eut at a himself encouraged by his heat, and forthwith enlarges on the topic. higher value. Of course we can re-tain the house, but without the land "There are only she and George," it is useless to us, as my brother is says he, "and they are quite devot-fond of farming. We are willing ed; she thinks there is nobody like you should raise our rent—we would George, and he thinks the same

> of that stretch to the south of us, but, unfortunately, just now we cannot. I thought, if I were to ask you, you would perhaps reconsider your steward's advice, and let us your steward's advice, and let us winter, out hunting. Ribs, leg, head all went to smash, and even The sweet voice trembles ever bead, all went to smash, and even

> > and nursing."
> > "Ah! That is what makes

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