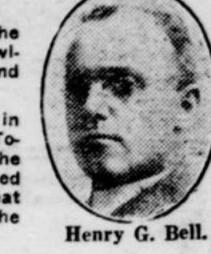
Conducted by Professor Henry G. Bell.

The object of this department is to place at the service of our farm readers the advice of an acknowledged authority on all subjects pertaining to soils and

Address all questions to Professor Henry G. Bell, in care of The Wilson Publishing Company, Limited, Toronto, and answers will appear in this column in the order in which they are received. As space is limited It is advisable where immediate reply is necessary that a stamped and addressed envelope be enclosed with the question, when the answer will be mailed direct.



water-tight pit?

(3) Is there any simple way of removing the silage from a pit silo.

Answer:-(1) Lowering a light into the silo will soon discover the presthrow in a couple of feet of coarse blocks or rocks there will be room for the gas to settle at the bottom of the gas to settle at the bottom of the silo and not occurred the gas to settle at the bottom of the silo and not occurred the gas to settle at the bottom of the silo and not occurred the gas to settle at the bottom of the silo and not occurred the gas to settle at the bottom of the silo and not occurred the gas to settle at the bottom of the silo and not occurred the gas to settle at the bottom of the silo and not occurred the gas to settle at the bottom of the silo and not occurred the gas to settle at the bottom of the silo and not occurred the gas to settle at the bottom of the silo and not occurred the gas to settle at the bottom of the silo and not occurred the gas to settle at the bottom of the silo and not occurred the gas to settle at the bottom of the silo it can be pumped out at intervals. The four ounces of corrosive sublimate. sile and not occupy the volume where second means of procuring good drain- (which can be purchased at any drug have a half barrel in which to mix the ups are not playing fair when they let before breakfast if one likes it that the silage rests.

trued.

ages and would like to try one. State will be moist when the cement is put method or the corrosive sublimate how the gas trouble is evercome, and on the corrosive sublimate measure. If it is not begun until learn that we must do our share when the cement is put method or the corrosive sublimate measure. how the gas trouble is overcome, and on. As it is desirable to have this treatment. Formalin may be pur- after the blight has attacked the crop how the digging and plastering are cement three-quarters of an inch to chased at any drug store and should only partial control can be expected. one inch thick on the walls it would be used at the rate of one pint of In mixing up the Bordeaux mixture (2) Have we not been cautioned to perhaps require three coats to do this, formalin to 30 gallons of water. Place use four pounds of copper sulphate provide drainage for the inside of the as not more than one-quarter of an the potatoes in a gunny sack and soak (blue vitrol) and four pounds of stone sile to prevent actual accumulation of inch can be put on at a time after the in the formalin solution for two hours, lime to 50 gallons of water. In mixliquid. How can this be done in a first coat. After the first coat has then spread the seed out on the floor ing up the solution the copper sulphate

second coat will require time to set. | disinfected.

three or four inches at east to be removed when the walls are finally are fina moved when the walls are finally A box with a capacity of about 10 time that each lot remains in the mixbushels of silage is sometimes used. ture, after the first. Corrossive sub- the side and beneath the leaves. The the doubt. For the boy you mention temperature is 220 degrees. 4. A A small quantity only should be put or six feet and have the walls trued, wheels under one end, and the other placed where children or animals can adding one pound of Paris Green or 2 I am told, has developed one little fel- when tired. After you have excavated .. bout five This box is provided with two 8-inch they should be plastered with a good end has handles, so that it is possible cement mortar. The first coat can be to use this in the same way that a The latter treatment will absolutely Bordeaux solution and both applied at put on about a half an inch thick, and wheelbarrow is used. After the silage control potato scab and Rhizoctonia the same time. should be made of one part cement and is used down to some distance, a horse three parts clean sand, and plastered or a gasoline engine can be used as a right on the dirt walls. If the source of power to run this hoist.



INTERNATIONAL LESSON

Lesson VI.—Jesus The Servant of -John 13, 1-17. Golden Text Mark 10, 44,

MAY 6.

Verse 3. The knowledge that he was Lord of all prompted Jesus only to act as servant of all. The knowl- As the heavy spring work comes on, Of smiling through her tears; his way from God to God makes ed for in the most careful way. menial work majestic: what are this

In Indian language, he adopts of the farmer. tensely degraded a man feels when with it. made to do the work of a caste below dies a slave's death and shows a man tion, and a little long hav in the mangcannot be degraded by what is done to ers for the horses to pick at if they

Cometh-Apparently not first. ting some distance away. It would be just like Judas to take the place next Jesus, and receive this washing Peter's way. Every word of his sharp out-cry carries all the emphasis Peter was capable of: thou hast most. | mer a torment.

letting his idolized Master do such a years old 9.33 cents., and for coming thing for him! No part-Compare three-year-olds 6.08 cents. The total Acts 8, 21. No share with him in his cost up to three years old was \$71.96. work and his glory, unless he has cleansed him first. The very suggestion sends Peter into the other ex-

10. A banqueter starts his preparations at home with a bath. In the dirty streets on his way to the host's house he gets his feet and calves bady splashed. So on entering the (Matt. 3. 11-so read),, and another brings water and washes his feet (Luke 7. 44). So he proceeds to the

11. This is parenthetic. Judas had received the washing, but it did not cleanse him any more than the parable of heavenly bread and wine gave him hog medicine down at the store.

is so rendered in verse 7. 13. Teacher-The English Revised Version Master gives the note of authority better, and comes nearer to ity over mind and heart (compare the little; it will pay. Indian guru), and royal rights over the whole life, are the notes of the

When love is strong. It never tarries to take heed, Or know if its return exceeds Its gift; in its sweet haste no greed,

-Helen Hunt Jackson. of production.

The symptoms of ring-bone are gen-Fair April pinned a violet erally irregular lameness followed by constant lameness with a bony enlargement, partially or completely surrounding the coronet or pastern.

The best treatment is rest, then She was a very charming sight, blister with 2 drams each of biniodide of mercury and cantharides mixed with 2 ounces vaseline, repeat in about two weeks. If this fails to cure have oint fired and blistered. There is a way that April has

he was in this world only on the work teams should be fed and car- And always when she smiles the sun

To increase the efficiency of the farm team means dollars in the pocket She knows that rain and sun are both

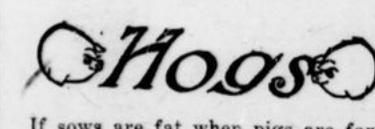
ame to do coolie work: the The best way to feed for efficiency She drops a tear chased by a smile towel serves as his dhoti. One has is to cut the hay, sprinkle it with wa- To make the flowers grow. to visit the East to realize how in- ter and mix the ground grain ration

This ration is to be fed in the morning; at noon, feed whole grain; at degraded by the work he does: then he night, give the cut hay and ground ra-

> The hay can be soaked from one feedhorses this is a good plan.

Docking or cutting off the tails of a racket. "Oh, it's you, is it, Mrs. than hens' eggs. We can picture the others ac- horses is a cruelty that lasts through Spider? I didn't know you could be cepting it in utter bewilderment, too life. They can never, after this cruel so disagreeable." operation, brush off the flies and mosquitoes that make their life every sum- able. I was singing, not making a Early chicks will not thrive in a cold, every pair of hands wiped on it plants plenty of soap and thoroughly rinse able men are now very scarce. For

7. I and the first thou are both At Dominion Experiment Farms the cost of feeding colts rising one year old was found to average 10.6 can think of is the utter shame of cents per day, for colts coming two



If sows are fat when pigs are farrowed keep down the grain ration for the first two weeks.

If kept right, hogs are not apt to have much the matter with them. Good

There is not so much call for very even from a spider." 12. Know-Rather understand: it fat pork as there was a few years ago. "It's very kind of you to want to for 48 hours after hatching. ought to be a good thick one.

How much does it cost you to get may I learn from you?" authority better, and comes nearer to How much does it cost you to get may I learn from you?"

the original Rabbi. Lord—Author- a pound of pork? Figure on that a "As I learn from the tiniest things, Clean drinking water and plenty of filthy and repulsive thing but if any til the clothes are vinced.

Not one farmer out of a thousand learn from the ant to be industrious. success in poultry.

few really know how much it costs to terrupted the big fellow.

make pork. But it would pay to Mrs. Spider went right on. "Do Eggs all of one color are preferred it has been in use. Skin disease, afhealth is cleanliness. Hands fore me and so he are so he and so he are so he make pork. But it would pay to Mrs. Spider went right on. "Do Eggs all of one color are preferred weigh or measure feed and let the you know that a man was once so disto those of mixed colors. Uniformity it has been in use. Skin disease, aften every thing and so he put his hand in his pocket for color matters of cost couraged that he was ready to stop his ity in size is also a matter of important put his hand in his pocket for clothing and entire bedy must be kept heart, and that's far and away the least hind of helping."

The Exercise of a Little Care Will Prevent Enormous Losses From Scab and Blight-Simple Preventative Measures.

By Henry G. Bell, Agronomist. There are two grave periods in the | and costs so little that no one can

life of the potato crop from the disease ford not to dip the potatoes. control standpoint. This first is before the crop is planted; the second is about the time the plants are makis so easy to treat all potato seeds that spraying with Bordeaux mixture. cause the method looks so simple.

April's Way.

Upon her dress of green,

So that she might be seen.

Foretelling summer hours;

Up in the sky appears.

We called them April showers,

Spring's welcome guests, and so

The Happy Spider.

"Swing high, swing low,

Just swing, in the air.

It's all in a spider's life."

High hee, high ho!

ease?" whined Mr. Elephant.

Never despair,

CONTROLLING POTATO DISEASES

Potatoes in many sections also sufing a good growth and extends up un- fer from both early and late blight, til maturity. Enormous losses are which frequently kills the vines and suffered by the potato growers, all of causes the tubers to rot. These dismost men fail to do it properly be- requires, however, that the spraying be started early. The first spraying like to learn a little about pit silos. I have dried out considerably, it would widely distributed. It may easily be to 8 inches high. Spraying must be

> since the first sets rapidly, but the else touches the seed should always be lons. In the same way the lime (2) There are two ways of getting However, I prefer the corresive sub- small quantity of water and enough lines, colors and forms of vegetation. by a cold bath. A short hot bath way. should be dissolved separately in a

be pumped out at intervals. The Four ounces of corrosive sublimate, For best results it is a good idea to As to the digging a pit sile and plastering, in ligging a pit sile and solutions and another for mixing the little farmer fret and plan and long of hot water, after which enough the copper sulphate. The mixture the little farmer fret and plan and long of hot water, after which enough the copper sulphate. The mixture the little farmer fret and plan and long of hot water, after which enough the copper sulphate. The mixture the little farmer fret and plan and long of hot water, after which enough the copper sulphate. The mixture that the little farmer fret and plan and long of hot water, after which enough the not plant to mix the little farmer fret and plan and long of hot water, after which enough the copper sulphate. digging a pit sile the dirt can be the pit sile and connect with some out. water should be added to bring the should be thoroughly stirred or agitatthrow out to a depth of six or eight side drain. Before it is time to put mixture up to 30 gallons. This ma- ed while being sprayed. The Bordeaux sults of his labor without even the oranges and stewed prunes or figs, are ed while being sprayed. The Bordeaux sults of his labor without even the oranges and stewed prunes or figs, are ed while being sprayed. The Bordeaux sults of his labor without even the oranges and stewed prunes or figs, are feet, but it is best to throw it out to a depth of about five feet and then true up and plaster the walls. Otherwise it will be necessary to build a scaffolding inside the silo. Care should be taken to be silo. Care should inside the silo. Care should be taken in the end of it. This will prevent one and one-half hours. This mix
the pipe by driving a close fitting plug cutting and allow them to remain for the spray so as to thoroughly cover the spray so as to thor ture should only be used four times leaves, both on top and on the under has had anything to do with training the milk is pasteurized in a bottle or by good feeding.

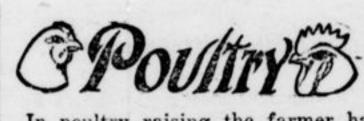
limate is a poison and should not be "Potato Bug" may be controlled by it would be especially valuable. Tennis, person is most susceptible to colds in the trough so they will eat it up get hold of it or drink the mixture. to 3 pounds of Arsenate of Lead to the

on his bed he saw my great-greatgrandfather, or some other spider, trying to swing to and fro and patch up its web, and finally the spider did make a successful swing and did patch the web, and the man was so encourkept on trying and finally conquered?" complaints exists than the common ent and use the washing accommoda- pays, and pays big. "I don't know of anything I want to hand towel. Hung up in schools and tions. conquer," replied Mr. Elephant.

"Ah, my dear sir! You may not kitchen, it is a constant menace to hand towel that is used indiscriminate-And stepped out bravely in the sun have a web to weave and you may not have an army to command; but there is always something in this world to And when the raindrops pattered down

rific temper," suggested Mrs. Spider.

to conquer, conquer yourself," replied known to live through boiling and to to them an abomination. For towels, ed help owing to enlistments and other Mrs. Spider softly. "That would be revive after the towel has been laund- napkins and handkerchiefs they use nilitary and economic reasons, cona great victory for you!" among the clean linen.



range he can give his fowls.

ing to the next if desired. For old noise?" asked Mr. Elephant, as he Never hold duck eggs long. They worm or any of the parasitic diseases, and face wiping, will never again be result in a larger production should looked up to see who was making such depreciate in quality more rapidly uses a towel in common with other without it.

that you can put two in one house and population on the towel is increased very least they should be changed fre- of war, and the attraction of big pay "Disagreeable? I'm not disagree- they won't fight.

noise. You have no ear for music." open coop; it is an impossibility, so do a new colony of germs. As the towel the hands before drying. Then all efficient farm hands rates range from Mrs. Spider simply had to laugh.

"Cease? You must never ask a chamber of the incubator is one of be unwise. ages, since time began, a spider has strong, healthy chickens.

ing his huge body to and fro. "What unclean nests; and clean eggs bring the cow-stable.

conquer-bad habits, for instance." "Haven't any," Mr. Elephant replied house kitchens was recently made, another through surface abrasions, "Then start in to conquer your ter- of bacteria developed was beyond be- The Japanese are, as a class, a far Mr. Elephant.

lief and the worst of it was that most cleaner people in their habits than we. "Well, that's growing better," said of the microbes were of the spore The poorest of them takes a daily bath order and therefore the most difficult for the entire body and our custom of

"If you can't think of anything else to destroy. These spore bacteria are carrying a soiled handkerchief seems

and 11 min

If there was one thing Mr. Elephant The second brood of goslings usually comes a genuine pesthouse where encould not stand it was being laughed need more care and more feed than the ough microbes are bred to infect a rinsed. The one who does the work have men and boys from the towns and at, so he took a good look at his ear, first ones, as the grass is apt to be so county. flapped it once or twice and said: tough by the time they are hatched Soap is a great aid to cleanliness be- water. A good desinfectant should summer is welcomed by the majority "What's the matter with my ear? I that is is hard for them to bite it off. | cause most bacteria do not thrive in be used when they are boiled. really can't see why I, the king of Goslings do not need feed until they the alkali and other chemicals which All linen that is soiled with excreta the idea of having to train helpers in beasts, should be worried by a spider." are 24 to 36 hours old, when they it contains. But soap, alas! is some-"Oh, ho! The very idea! The Lion should be fed any of the mashes retimes regarded as a luxury. To some the very idea! The Lion should be fed any of the mashes retimes regarded as a luxury. To some the very idea! The Lion should be fed any of the mashes retimes regarded as a luxury. To some the very idea! The Lion should be fed any of the mashes retimes regarded as a luxury. To some the very idea! The Lion should be fed any of the mashes retimes regarded as a luxury. To some the very idea! The Lion should be fed any of the mashes retimes regarded as a luxury. To some the very idea! The Lion should be fed any of the mashes retimes regarded as a luxury. To some the very idea! The Lion should be fed any of the mashes retimes regarded as a luxury. To some the very idea! The Lion should be fed any of the mashes retimes regarded as a luxury. To some the very idea! The Lion should be fed any of the mashes retimes regarded as a luxury. To some the very idea! The Lion should be fed any of the mashes retimes regarded as a luxury. To some the very idea! The Lion should be fed any of the mashes retimes regarded as a luxury. To some the very idea! is the king of beasts. Every kind of commended for chickens or ducklings, persons the use of the hand towel is fecting articles that may carry disking has a jester, so you must be the or a mash or dough of two-thirds simply to remove dirt that has been ease germs. Tuberculous and most difficulty, and farm help will be exking has a jester, so you must be the or a mash or dough of two-thirds shaped to be completed by a splash of cold water. If other bacteria are destroyed by boil-changed more than ever. It is also Lion's jester." Mrs. Spider went on shorts (middlings) and one-third corner to shorts (middlings) and one-third

spider to cease. Through all the the first essentials to the hatching of Consider the roller towel that hangs which something absolutely germ-killages, since time began, a spider has strong, healthy knickens.

been the model of patience and pains
After the breeding season is over, every member of the family. If there it is now very expensive and is a dangare children, it is in constant use. One erous poison to have about. Bichloride farm land. Reports from other feed, a dry, warm place to stay, and a taking work. I simply can't stop, roosters are worse than a useless enchildren, it is in constant use. One taking work. I simply can't stop, roosters are worse than a useless enchildren, it is in constant use. One taking work. I simply can't stop, roosters are worse than a useless enchildren, it is in constant use. One taking work. I simply can't stop, roosters are worse than a useless enchildren, it is in constant use. One taking work taking work. I simply can't stop, roosters are worse than a useless enchildren, it is in constant use. One taking work taking w

taking work. I simply can't stop, roosters are worse than a useless en-even if I wanted to. Don't be dis-cumbrance. They are a positive in-another his jam-smeared face; the deadly poison and very dangerous for another his jam-smeared face; the deadly poison and very dangerous for and sometimes 150, acres. Chicks should be left in incubators baby gets a hasty dab that leaves a de- household use because the tablet form posit of milk curd; and the hired man in which it comes is like other tablet Sensible, too. The streak of lean teach me," said Mr. Elephant, swing- You cannot expect clean eggs from takes his turn at it as he comes from medicines. Formalin is a good solu-

"As I learn from the tiniest things, Clean drinking water and pienty of so you, too, may learn from me. I it is one of the prime essentials to member of the household is afflicted badly on the skin. member of the household is afflicted badly on the skin. Not one farmer out of a thousand learn from the ant to be industrious. success in pountry.

ever puts his hog on the scales until From you, to be cross and fault-find
The artificial incubation of eggs with ringworm, for instance, that be
graph of the persons on the place will a didn't wing word when he was dewnous.

The artificial incubation of eggs in pountry.

The artificial incubation of eggs in pountry. dates back to the early Egyptians, ing a peculiarly persistent fungus all the persons on the place will do didn't give me money, but what he after he has ceased to be a hog and ing—"
becomes cold pork. That is why so "That will be enough about me," inwho used ovens heated with fermentspite of successive washings and irondisease germs away from the feet of the early Egyptians,
who used ovens heated with fermentspite of successive washings and iron-

that the more we cut the flowers the ter. more richly they bloom; we learn J. H. L.:—A very hot oven is usually every day. Give them what they will patience and perseverance in working required for pastry. To test it place eat clean. for a harvest that is worth while, a spoonful of flour in the oven. This The strainer has never been made

Mothers and daughters of all ages are cordially invited to write to

Woodbine Ave., Toronto.

Many victims of the former disease

tion; a teaspoonful to a gallon of wa-

dividual Towels.

public places and even in the home The gravest dangers that lurk in the

A microscopic study of towels used are unaware that they have it but the

with startling results. The number cuts, light scratches, chafed skin.

that should be abandoned.

of the normal body harbor always a ness.

Cows that freshened last fall are producing a pound of butter fat a day in Spring are doing well.

The ideal milk supply is one rived from healthy animals cared for this by members of the family supplied. Its Under such conditions the methods given in each letter. Write on one side of paper only. Answers will be age of the milk are known, the milk Address all correspondence for this department to Mrs. Helen Law, 235 is not handled by successive individsafe from either the addition or substraction of various materials. How-H. K.:—Gardening is of the greatest low into a crack player who has the ever, such a supply is generally imbenefit to children. Not only is the courage to lose a match rather than possible under present day conditions, ercising of a little care and time. It losses but they can be controlled by is so easy to treat all potato seeds that spraying with Bordeaux mixture. It a real character builder and mental trainer. There is hardly one of the trainer. There is hardly one of the of its tribe, should not get too much Skim-milk has all the protein of the

moral virtues which is not inculcated sun, but plenty of light. The secret new milk, the muscle and tissue buildplant the tiny seeds in the confidence not water from the top, but put the pot Supply the fat with flaxseed jelly,

we water, prune and weed; we see the twice a week. Also wash the leaves The calves will begin to eat bright advantage of generosity as we note off weekly with a little weak soap wa- clover hay at two weeks of age. Give them little bright locks of clover hav

been put on, it will probably be pos- to dry before cutting. All sacks, ma- should be dissolved in hot water and should be

rid of the moisture in the bottom of limate treatment, as this not only conlight will go out immediately. The gas is heavier than air; hence, if you gas is heavier than air; hence, if you throw in a couple of feet of coarse the bath should be fol-



will be holes or uneven places in the walls of the silo. It is best to leave walls of the silo. It is best to leave getting out the dirt when building the and a new lot made up. It may be having a sprayer with three or four inches at east to be very larger to be very l

> A little watchful care will enable the flockmaster to keep a fresh supply of grain in the trough.

Separate the ewes and their lambs from the main flock. A hurdle can be used for this purpose. The ewes with lambs should be fed Cleanliness Makes Health Possible, Therefore Let Us Use Instronger than the ewes that have not

vet had their lambs Every little attention is money in No more industrious spreader of dividuals suffering from one or more the pocket. Sheep are very susceptaged by this little tiny act that he, too, skin diseases and other contagious of these diseases are sure to be pres- ible to tender care and fussing, and it

AGRICULTURAL CONDITIONS.

health and its use is a filthy custom ly are syphilis and tuberculosis. Increased Production and the Farm Labor Situation.

The Ontario Department of Agriculin grocery stores, hospital wards and germs can be passed on to the blood of ture gives the following notes based on information furnished by their staff of correspondents:

Reports of correspondents show that many farmers have indicated their determination to bring about a larger production this season if labor conditions will permit. The lack of trainered, continuing their deadly work paper which is burned. To wash and fronts the farmer at the very start. use again such filthy articles is from The scarcity and high cost of seed is The mucous membrances and skin their point of view incredible nasti- also an important factor, potatoes for instance. While an increased area is certain number of bacteria. After A supply of thin absorbent paper being given to permanent pasture by the use of water on the body, succeed- napkins kept on hand for use in case many farmers, others are going in for ed by vigorous towel rubbing, a large of "colds" is a cleanly precaution and greater acreage of spring grains this number of these bacteria are transfer- a work saver as well, while the in- year, and roots will also receive their In poultry raising the farmer has red to the towel. If the individual creased safety in burning up the infec- share of attention: "Anything to beat an advantage over others in the wide using the towel is healthy, the bacteria tion is incalculable. As for towels, the ermans and end the war" is the may do no harm, even through the those who learn the cleanly comfort of motto urged by several correspondents, The hen may be a machine, but few towel be used by some one else. But a roll of absorbent paper towelling in- and both patriotism and a natural de-"Won't you please make a little less of us ever learn how to run it right. if a person afflicted with eczema, ring- stalled in the kitchen for general hand sire to have fuller barns are likely to

the growing season prove favorable. persons, every one who touches it is If for any reason, a family cannot Wages for farm help were never so One nice thing about brooders is liable to infection. This bacterial have clean, individual towels, at the high as at present, as owing to the call by each one who uses it in turn and quently and everyone should use in munition and other factories, suitnot experiment any further with it. stays damp from frequent use it be- towels and handkerchiefs should be \$40 to \$50 a month with board, and should avoid putting the hands in the cities assist in agricultural work this of correspondents, but others scoff at shorts and cornmeal, and five per cent. clean hands to wipe dry on it, the of all families. But many forms of labor than ever before from local "Swing high, swing low."

Shorts and cornmeal, and nive per cent. danger would be less, but even then spore germs, especially skin bacteria, families will be utilized to meet the A humid atmosphere in the egg the common use of the towel would are not destroyed even by boiling. These must be treated to a boiling in These must be treated to a boiling in census taken in a township in Brant on many a kitchen door to be used by ing is used. Carbolic acid is best but available to work every 85 acres of

The Best Way

Scatter your kind words broadcast. It no one of the family is diseased, ter is the right mixture. The hands They are the best alms you will ever a cordial word when he was downess. spite of successive washings and iron- disease germs away from the farm I went right out and struck a job. He

The

CHAPTER XX.-"I missed the ship,"

Or, The

affected Miss Tyrell's to you intend bewildered F slease, before I forget It was Fraser's turn ie burnt a rich crimson

for you, he said, aw came to look after a pi I'd left here." "I saw you taking care There was a pause, Miss Tyrell took a seat her hands in her lap, g

"I was going to take

exaltation "I understood that yo notice in the City," he "but I'm very glad that y Miss Tyrell shook he stooping down adjusted !

I'd left it open," said ully; "I hadn't was no help i

