

### CONDUCTED BY PROF. HENRY G. BELL

The object of this department is to place at the sor-vice of our farm readers the advice of an acknowledged authority on all subjects pertaining to soils and crops. Address all questions to Professor Henry G. Bell, in care of The Wilson Publishing Company, Limited, Toron-to, and answers will appear in this column in the order in which they are received. When writing kindly men-tion this paper. As space is limited it is advisable where immediate reniv is necessary that a stamped and ad-Immediate reply is necessary that a stamped and ad-dressed envelope be enclosed with the question, when the answer will be mailed direct.

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L. R.: Have a seedbed ready to sow Answer: It is difficult to ton a simple examination whether or not simple examination whether or not to alfalfa in the spring. Want to simple examination whether or not cover it with marl. Should I do this the water is pure and free of disease (the least valuable of nutrients and the cob may be shipped for exhibition done!

This can be done this fall. I presume the field has been plowed but not worked down.. It would be very good practice for you to haul the marl and spread it just as though you were worked down It would be very good worked into the top 4 or 5 inches of sourness

C. L.: Is pasturing in the fall harmful to rye and vetch as grain crops? Answer: Pasturing of rye and vetch in the fall is not injurious if you are careful not to pasture it too severly and especially not to leave the livestock on the rye and vetch after there has been sufficient rain to make the ground soft. If the soil is clay there is danger of it packing so closely that the air will not circulate and this condition would be deadly to rye and

H. L. K.: How can I tell whether



Answer: It is immateral when you apply the marl to your alfalfa field. before or atter seeang? Answer: It is immateral when you apply the marl to your alfalfa field. be inspected on arrival by an inspec-tor appointed under the Destructive Ontario Agricultural College, Chemistry Dept. and Bacteriological Dept. Ask both the departments to make an examination of it.

In many towns and cities it is con spreading lime over the plowed field. mon practice at certain seasons of the 36 samples of barley and barley pro-In the spring, as soon as the soil has year, such as early spring, to put a ducts, 3 samples of whole oats and 3 for packing, cut flowers, or entire ring, as soon as the soin has year, such as early opting, or in the samples of whole oats and by a certain amount of chloride of lime in samples of hulled or hulless oats, 26 plants of chrysanthemum, aster, cos-but the water. This through its chemical samples of oat feeds, 6 samples of corn-meal, 8 dahla, unless accompanied by a certhe soil. During the winter a large action assists in the destitution of glutan feed, 21 samples of corn-meal, a damha, unless accompanied by a cer-amount of soluble lime matter in the bacteria in the water. The quantities of glutan feed, 41 samples of mixed tificate of inspection issued by the marl will be washed into the surface of chloride used depends upon the per-chop feeds, 14 samples of Schumacher United States department of agricul-8 or 4 inches and will correct the centage of dangerous bacteria found in the water.

J. S.: Can I use the tractor to advantage in other work than plowing? miscellaneous feeds, were analyzed the borer. It should here be mention-Some who have had no experience and microscopically examined, re-question the advisability of counting sulting details of which are set forth borer, its habits, nature, how to identhe tractor for other than the work in the bulletin in tabular form. De- tify its presence in early stages, and of plowing.

Answer: The tractor can be used to advantage in several ways besides ly found in commercial feeds. plowing. For instance, if the tractor is not too heavy it may be used for the hauling of such tillage machinery The Sunday School Lesson as disks and harrows, and at the same vetch. If you have been pasturing time the hauling of the seeder. Later your rye and vetch and it seems to be the lighter tractors can be used for fairly well eaten off, you would do the hauling of cultivating machinery, well to give it a top dressing of about while the larger tractors can be used Paul Before the Roman Governor. Acts 24: 10-17. Golden 200 lbs. per acre of bonemeal, or of a for such work as the running of fertilizer analyzing about 2 per cent. thrashing machinery, and all machinammonia, 10 to 12 per cent. phos-phoric acid. ery requiring belt power, such as grinding machinery, machinery for

sawing wood, road work and the like the water from our well is pure or not? Is there anything we can put in it to kill possible impurities? bawing wood, four work and the frac-there are a great number of user that can be made of a tractor besides the primary use of plowing. the primary use of plowing.

ber of which are still in process, while

the others will be attended to as soon

as they can be reached. The process

is being conducted by officers of the



## The Careless Fairy.

Little Fairy Flitabout had such a craze for fleetness he didn't care a bit about a prosy thing like neatness. tunic top to toe, then with a joyous whistle fly straight into a thorny bush or perch upon a thistle. He really did care a rap about the way he. looked, that chap.

The fairy tailors lost much time in

## **Cattle Feed Impurities.**

During the war not only did the price of cattle feeds of all descriptions greatly increase, but they also deteriorated in quality to a marked degree. Dangerous as well as unpalatable feeds were reported. In an first revealed in 1919. Since its diseffort to improve the situation the Do- covery it has succeeded in working its minion Department of Agriculture way into various districts, so far as undertook to obtain data which might serve as a basis for the regulation of tario. recently been issued. As a preliminary step, manufacturers of feeds and dealers all over the country were communicated with and samples obtained. These were analyzed, first for their purity and absence of injurious weed seeds, and then for their value in pro-

tein, fat or oil, carbohydrates (starch, a manner as to eliminate any risk of yet required to a limited extent), and purposes, but the consignments must ash (a mineral matter taken from the be inspected on arrival by an inspecassists in forming bone). The extent Insect and Pests Act. Importation and thoroughness of the work will be appreciated when it is stated that 57 infested in the United States of corn samples of bran, 69 samples of shorts and broom corn, celery green beans in or middlings, 8 samples of feed flour, the pod, beets with tops, spinach, 36 samples of barley and barley profeed, 10 samples of Sampson feed, and ture stating that the products menvarying quantities of calf meals, hog tioned are free from the pest, as all feeds, poultry feeds, oil cake meal and the above plants are liable to harbor

scription is also given of the nature methods of control, are given in a and effect of the weed seeds frequent- leaflet recently issued by the Domin-

Corn Borer Suppression. Every effort is being made to check and suppress that insidious and per-

sistent pest, the European corn borer, the presence of which in Canada was known at present, exclusively in Onways through rural Ontario. "You work hard at it and when it Other places, however, are Above all, when it is done, it stays including broom corn, whether used done. done. Now with the housekeeping, no matter how well you do it, it all for packing or other purposes, green sweet corn, roasting ears, corn on the has to be done over again every day and every week, and—" there was just a touch of pathos in her voice. cob or corn cobs, from areas infested, except when manufactured in such "no one notices all the things you do

There is no forty-eight-hour week for the home-maker, no decorations, no increased salary, no public ecognition." "Have you a Women's Institute in your neighborhood? And do you be-

long?" asked her companion. "No, we have the Ladies' Aid in our church. I go to that sometimes, "The Women's Institute is not that It is a centre for study, inspination, and social recreation for all the girls and women over fourteen in the neighborhood, those who are home-makers or ever may be."

There was something infectious in the tone, the upturning curves of the happy mouth, the sparkling eyes of the veteran home-maker. "It is nonpartisan, non-sectarian (not non-religious, as one enthusiastic but illinformed English organizer said!) and recognizes no class distinctions. The girls and women of a neighborhood set aside one afternoon in each month when they all come together to study better home-making, to pass along their best ideas to each other, to ask and answer questions, give demonstra-tions, papers, readings, music, and

end with a cup of tea and a social half-hour." "What do the men say?" There was

a hesitating note in the query of the first speaker.

**IEXT**—Acts 24: 10 (Acv. ver.). Time and Place—A.D. 58, Caesarea. Connecting Links—Ch. 22: 1-21 gives Paul's speech from the castle stairs, which was interrupted by the rowd when he spoke of his commis-sion to preach the gospel to the Gen-tiles. The frenzied mcb demanded the apostle's life (vs. 20, 23), and to save him from the rage of his countrymen, the Roman commander ordered him to holding office or taking part in the program of the Institute. It dignifies housekeeping, you see. The Institutes are in partnership with the Government. There is an Institutes Branch of the Department of Agriculture which sends out lecturers and demonstrators and information and liter ature to any Branch which asks for it, and co-operates with the members in getting up the annual conventions where men and women discuss to-gether all that goes to make better court. homes, better people, a better com-Ver.); munity, a better and happier social those life, and a better and more scientific agriculture. Oh, yes, country women

IV. A Trembling Judge, 22: 27. Vs. 22, 23. Having more perfect knowledge. The meaning is that Felix had "a pretty exact notion" as to what belief in Jesus meant, and saw that no case had been made out against Paul. He might have dismissed the case instanter, but his interest lay in giving to the Jews as little offence as possible. Hence he "deferred them," that is, adjourned the case, awaiting the coming of Lysias with additional evidence. Keep Paul, and . let him have liberty. This "free custody," as it was called, allowed the apostle's to bring him food, books, letters, writ-ing materials, etc.

should be a matter for study

governments to set up a Department

grams and conduct your meetings.'

to help the rural home-makers. But "Candy Making."

# Programme Planning in the Women's Institutes

## By Gibson Scott

"Now there is some satisfaction in doing a job like that," said a young housekeeper recently as she paused in passing to watch the men at work upon one of the splendid new high-ways through rural Ontario. When

propaganda campaign. When and where a neighborhood feels that it serve as a basis for the regulation of tarlo. Other places, nowever, are "You work hard at it and when it where a heightorhood term of the matter by legislation, which has urged to keep a watchful eye, and if is finished you and every one else who wants one, it starts one and can get passes that way knows that it is a help, at the beginning and afterward, any traces appear to immediately passes that way knows that it is a help, at the beginning and afterward, in its organization and plans, from Ottawa. The law prohibits the re-things better for the countryside: ment Buildings, Toronto.

A Well Planned Institute Program. Good program planning is the crux of a successful Institute. No two programs are just the same because the needs of no two neighborhoods the pest being carried. Seed corn on in the house-unless they are not underlying principles are present in are quite the same, but the same all.

Here is an attractive, well-balanced program for 1921-22 from the West Flamboro Institute. Note the broad and practical outlook of the home-

makers, girls and women, in the scope of the subjects studied during the year. Foods, health, the social life, the school, civics, clothes, laws, business methods in the home, labor-saving, how to live the highest and happiest life, music, discussions, with the mottoes and Institute ode, are all combined in a whole which is for the

most part carried out by local talent. The June meeting will be addressed by a speaker from the Department of Agriculture sent from the staff of the Institutes Branch

July.

Opening Exercises, Roll Call. "Canning Fruits and Vegetables," Mrs. Thompson. Selection of Meat on the Market and

the Best Ways of Cooking Each Cut." Discussion.

reparation of Questions: Mrs. Cecil Green. Music: Miss Weir.

August.

Opening Exercises, Roll Call. "Preparation of Vegetables for the Table": Mrs. Wm. Hopkins. Simple Desserts for Warm Weather Discussi

Preparation of Questions: Mrs. Frank Hore.

Music: Miss Florence Dyment. September.

Opening Exercises, Roll Call Preparation of Fish for the Table." Discussion

"Salads": Mrs. David George Preparation of Questions: Mrs. Har-

vey Betzner. Music: Møs. Fraser Morden, Miss

Maude Betzner. lisitors to School: Mrs. Surerus and Mrs. W. Anderson; Mrs. Ed. Morden and Mrs. H. Hunt.

October.

Dpening Exercises, Roll Call. 'How We Are Governed': Mrs. Vernon McKee.

Pickling." Discussion reparation of Questions: Miss Annie

Dwyer. Music: Miss Clara Nunn. Visitors to School: Mrs. H. Betzner

and Mrs. W. Nunn; Mrs. B. Hyslor and Mrs. McK. Morden. November.

Opening Exercises, Roll Call. Christmas Thoughts": Mrs. Wm. Anderson

Proper Methods of Entertaining in the Home": Mrs. Enright.

reparation of Questions: Mrs. Geo. Cornell. Music: Mrs. James Harper and Mrs.

Ed. Lightfoot. Visitors to School: Miss Rachel Betz-

ner, Mrs. Geo. Cornell; Mrs. Hopkins and Mrs. J. Surerus. Vs. 24, 25. Felix came; arrived, that in Caesarea from a distance. He men, should be important enough for "What All the World's Sceking": Mrs.

Discussion

James Harper.

in Canadian Cattle. Canada's cattle by all accounts, comparisons, and statistics, may be said to be the healthiest of any coun-try in the world, and the Accredited Herd System, by its thoroughness, is well calculated to keep them so. Be-fore a herd can be declared free of fore a herd can be more must when the saved himself from this cruel indignity by declaring his Ro-man citizenship. In ch. 23: 1-10 we have an account of Paul's appearance before the Jewish Sanhedrin, which was brought to an abrupt close by a dispute between the Sadlucees and Pharisees. The rest of the chapter is bit about a prosy thing like neatness. tuberculosis a year or more must He'd rush around and brush around elapse, and the process is necessarily through briers, brambles, hedges and a slow one. For this reason many ap-snip his hems and rip his tucks and frazzle out his edges. He'd tear his deferred. Up to October 1 of the arrival at Caesarea, Ananias, the deferred. Up to October 1 of the current year, 648 such applications had been received, the greater num-

The fairy tailors lost much time in smoothing out his scatches and sew-ing up his scams again and putting on his patches. So when he tore a jagged hole right through his gauzy wing one tailor snid, "Upon my soul I'll cure him of this thing! I'll take him down a peg or two, and teach him that it matters to dash about and crash about in rags and tags and tatters!" Gay Flitabout sat airily and order-ed, "Mend me, please. I bumped my wing against a bee. Such nuisances, the bees!" He told a tale of how he'd flown

111. A reariess chailenge, 17-21. Vs. 17-20. After many years. Four or five years had passed since Paul had been in Jerusalem, ch. 18: 21. 22. Came to bring alms; the contributions which he had gathered in the churches of Europe for the poor Christians at Jerusalem, Rom. 15: 26; 1 Cor. 16: 1; 2 Cor. 8: 4. Offerings; the sacrifices connected with the Nazarite vow, ch. 21: 23-26. Ought to have been here; to make their charges in open court

Roman lawyer, whom they had engag-ed to lay their accusations against Paul before Felix, vs. 1-9.

## 1. A Straight Denial, 10-13.

to make their charges in open court. Let these men . . say (Rev. Ver.); Ananias the high priest, and those with him. IV. A Trembling Judge, 22: 27.

him from the rage of his countrymen, the Roman commander ordered him to be brought into the castle, where he was about to be examined by scourg-ing, when he saved himself from this cruel indignity by declaring his Ro **Stamping Out Tuberculosis** 

to Caesarea. Five days after rauls arrival at Caesarea, Ananias, the Jewish high priext, came down to Caesarea, accompanied by certain of the elders and Tertuflus, an eminent

"get down, young man; you'll do." "Of course I'll do." laughed Flit-

about and tried to spread his wings. Alas, alack, they would not move! Whatever ailed the things? Then round he wheeled and round he whirled, but all to no avail; he was as helpless as a dog that tries to catch his tail. With skillful stitches, firm and strong, but light as any feather, the his wings together!

to walk or sit about-no one would out the stitches! And when the tailor, of him grew dizzy.

But all the same, from that time on. about.

Bits of Wisdom.

Says Sam: The most expensive type of fence is the one over which neighbors quarrel.

The man who thinks any stock that ing son on the farm. is pure-bred is all right should read on the history of certain European up tovalties. Pedigree means nothing mless backed by performance.

Soy-beans are soil builders. Ever notice that the fellow who doesn't want to see the county repre-

2 in Ontario and s in British Column-bia, and one is Aberdeen Angus be-longing to Manitoba. It will thus be seen that British Columbia had 11 seen that British Columbia had 11 bia had 1 seen that British Columbia had 11 herds passed as thoroughly clean, On-tario 10, Quebec 9, Saskatchewan 4, Manitoba 2, and Nova Scotia 1. In addition to these, there are 558 herds that have been tested once or more in that have been tested once or more in strong, but light as any feather, the solemn little tailor man had sewed his wings together! For weeks and weeks poor Flitabout was cross as twenty witches; he had to walk or sit about—no one would to walk or sit about—no one would that have been tested once or more in process of accreditation and 54 herds awaiting the first test. If a herd is found to contain an affected animal, a certificate is granted, as the year of the temple.

probation does not commence until set him free he fled, so swift and eradicated. Reactors are immediatewhizzy that e'en a honeybee at sight ly removed and usually slaughtered

in fairyland or out, you couldn't find symptoms of tuberculosis by lesions, sprucer chap than that young Flit- but if any suspicion remains guinea pigs are inoculated with suspicious

material, and, if present, tubercle bacilli is at once revealed.

A room of his own, attractively kept, is one of the best ways of keep-

been twant to see the county tepter been taile is the one who never has be Glenside Roan Clay, a Shorthorn that weighs 3,250 pounds. He is own-Vs. 15, 16. Hope toward God; hope Nobody's see? cern is better than your own if yeu've a satisfactory strain, and will select erzefully from the Atalk. be cheste to an Clay, a Shortnorn that weighs 3,250 pounds. He is own-ed by Henry Lafler, Penn Yan, N. Y. The bulk was four years and ten months old when weighed June 28, 1921. be contraine to an Clay, a Shortnorn that weighs 3,250 pounds. He is own-ed by Henry Lafler, Penn Yan, N. Y. The bulk was four years and ten months old when weighed June 28, 1921. be contraine to an Clay, a Shortnorn that weighs 3,250 pounds. He is own-ed by Henry Lafler, Penn Yan, N. Y. The bulk was four years and ten months old when weighed June 28, 1921. be contraine to an Clay, a Shortnorn that weighs 3,250 pounds. He is own-ed by Henry Lafler, Penn Yan, N. Y. The bulk was four years and ten months old when weighed June 28, 1921. be contraine to an Clay, a Shortnorn that weighs 3,250 pounds. He is own-built upon Gcd himself, and his prom-ises. Resurcetion; the general belief of the Jewish people. The Sadducees, who denied the resurrection (compare) lack of self-respect. conflict with evil must ever be ecur-teous. If the evil-doer does not. de-serve our courtesy, we at least owe it we courteous to all men. Habits of discourtesy show not ises. Resurrection (compare) lack of self-respect. conflict with evil must ever be ecur-teous. If the evil-doer does not. de-serve our courtesy, we at least owe it we need both. In the Institutes' way is four self the resurrection of Merson. Music: Mrs. W. McKee. way of which I know.'' Election of Officers.

ed 7 are Snorthorn, four in Snarth scribed by facture, and three in Saskatchewan; 12 are torian, as a very bad and cruel gov-Holstein three each in Ontario and ernor. Cheerfully make my defence He told a tale of how he'd flown that very summer day against a mor-tal's latticework and barely got away. He hummed a tune, he smiled a smile, he cut a joke or two. "Now," said the tailor in a while, ""Now," said the tailor in a while,

probation does not commence until after all trace of tuberculosis has been eradicated. Reactors are immediate-ly removed and usually slaughtered under veterinary supervision. As a rule, there is no difficulty in detecting symptoms of tuberculosis by lesions, but if any suspicion remains guinea Vs. 12, 13. Paul denies that he had the city; a complete answer to the charges of Tertullus, vs. 5, 6. Neither can they prove, etc. It is easy to take

ible testimony is another matter Disputing; carrying on a discussion

II. A Bold Confession, 14-16.

V. 14. This I confess. Says Bengal, "One crime he confesses, but declares it to be no crime." After the Way A hive of bees beats the best hired man you ever saw. It will work for you when your back is turned, and while you sleep. The world's heaviest bull is said to Christianity was not a separation from the Jewish religion, but the fulfilment of it. Served (Rev. Ver.); the God of votion of his whole life. The God of

Vs. 24, 25. Feilx came; arrived, that is in Caesarea from a distance. He had been absent from the city. With his wife, Drusilla; the daughter of Herod Agrippa II, and so sister of Agrippa II, and Bernice. Felix had induced her to leave her husband, Azizus, King of Emesa, and become his wife. It was with this crime on his wife. It was with this crime on his soul that Felix sent for Paul. Reahis soul that Felix sent for Paul, Rea-soned of righteousness, temperance . judgment. The apostle met Felix with a stern demand for moral re-formation; Felix trembled; in terror. Perhaps his crime against Drusilla's husband had been of recent occur-rence, and he was therefore the more sensitive to such teaching. Co the way

ion Entomological Branch.

**NOVEMBER 13.** 

Text-Acts 24: 16 (Rev. Ver.).

Empire. sensitive to such teaching. Go thy way

. . convenient season. Thus Felix stifled his conscience. The "convenient season," allas! never comes. Felix did not change his conduct. Vs. 26, 27. After two years Porcius Control of the lattice history of the

Festus; one of the better kind of Ro-Festus; one of the better kind of Ro-man governors. Gain favor with the Jews; (Rev. Ver.); the real reason, along with the hope of a bribs, which in custody. Left Paul in bands; (Rev. Ver.); probably withdrawing the in-dulgence previously granted, thus giving Festus the impression which the Jews desired, that the prisoner was deserving of punishment.

Application.

Application. St. Paul before the Roman gover-nor, is discovered to us yet more clear-ly in that "white light which beats upon a throne." To begin with, he is studiously courteous. Although Felix was a bad governor and perhaps our Conventions and with lecture demonstrators, who come to the Institutes when they want them. They are specialists in their line, you know. "I like that idea of men and wo-

a worse man, St. Paul is respectful to him as one of the powers that be, and even pays him a compliment. There are those good people who know little about "a lovely goodness," who feel that in order to be true to principle they must be discourteous to could they must be discourteous to evil-doers. No such thing. Good in its conflict with evil must ever be ecur-

is Ontario really the first Government Report of Convention. to think of it?' Preparation of Questions: Mrs. W. "The rural home-makers and the McKee. Government of Ontario have the Music: Mrs. W. McKee and Mrs. V. proud distinction of being the pion-McKee. eers in planning such an effective way January. of working together, that our Insti-Opening Exercises, Roll Call. tutes Branch and local Institutes are "Hints on Nursing and First Aid": being copied now in many other coun-Dr. A. F. Rykert. tries, especially within the British Preparation of Questions: Mrs. Corman. "I'm so proud. I'm going to talk Music: Mrs. Ed. Morden and Miss Maude Betzner. Visitors to School: Mrs. Cecil Green to the other women right away and see if we can't start one here. What is the fewest number that can stant and Miss A. Dwyer; Mrs. Hore and an Institute?" There was a purpose Mrs. Enright. ful note in the question. February Opening Exercises, Roll Call. "Ten the first year, rising to fifteen the second year. You can get a Handbook from the Superintendem You can get a

"Living a Life is More than Making a Living": Mrs. McKinley Morden. "Labor-Saving Devices." Discussion. of the Institutes Branch in Toronto which tells you how to plan your pro-Preparation of Questions: Miss Rachel Betzner.

Music: Mrs. McK. Morden and Mrs. "How long is it since the first In-Ed. Lightfoot.

March.

Opening Exercises, Roll Call. since we succeeded in getting the full Demonstration on Dressmaking: Miss co-operation of the Government in Cummings.

Preparation of Questions: Mrs. L. Ironsides.

Musio: Miss Weir.

Visitors to School: Mrs. A. C. Ross and Mrs. A. Betzner; Mrs. R. Hunt and Mrs. Hopkins. April.

men working togetehr for the best interests of the home. I've often Opening Exercises, Roll Call. thought we women leave the man out "Canadian Laws for Women and too much, as if home-making and Children": Mrs. A. C. Ross. bringing up the children were wo-men's affairs only. There is the man's counts." point of view and the woman's, and Preparation of Questions: Mrs. Wm, we need both. In the Institutes' way Anderson.

stitute started?" "Twenty-five years next February But it is only about twenty-one yes