

appointed to take charge of the work of the Ontario fruit experiment stations and horticultural work of the Province generally.

OFFICERS FOR 1906.

Officers for the ensuing year are: President, Jas. S. Scarff, Woodstock; Vice-President, E. Morris, Fonthill; Secretary-treasurer, P. W. Hodgetts, Parliament Buildings, Toronto. Directors—R. B. Whyte, Ottawa; A. D. Harkness, Irena; Harold Jones, Maitland; W. H. Dempsey, Trenton; Wm. Rickard, Newcastle; Elmer Lick, Oshawa; Murray Pettit, Winona; E. Morris, Fonthill; J. W. Hilborn, Leamington; H. H. Groff, Simcoe; A. E. Sherrington, Walkerton; G. C. Caston, Craighurst; T. H. Race, Mitchell; W. H. Bunting, St. Catharines; A. McNeill, Ottawa; Jas. S. Scarff, Woodstock; representative of the Ontario Agricultural College and Dominion Experimental Farm, H. L. Hutt, O. A. C., and W. T. Macoun, C. E. F., Ottawa. Transportation Committee—W. H. Bunting, St. Catharines; R. J. Graham, Belleville; E. D. Smith, Winona; W. L. Smith, Toronto; Robt. Thompson, St. Catharines; H. W. Dawson, Toronto. Committee on Co-operation—A. E. Sherrington, Walkerton; Robt. Thompson, St. Catharines; D. Johnson, Forest; Elmer Lick, Oshawa; A. W. Peart, Burlington; W. D. A. Ross, Chatham. Committee on New Fruits—H. L. Hutt, O. A. C., Guelph; W. T. Macoun, C. E. F., Ottawa; E. Morris, Fonthill.

A New Horticultural Association.

On November 17th delegates from a number of horticultural societies of the Province met and organized a representative provincial body, to be known as the Ontario Horticultural Association, the object being to promote the interests of flower-growers. Officers were elected whose first duty will be the drafting of a constitution: President, W. B. Burgoyne, St. Catharines; First Vice-President, H. J. Snelgrove, Cobourg; Second Vice-President, Jos. Barker, Kincardine; Secretary-Treasurer, H. B. Cowan, Toronto. In addition to these are nine directors. With a Fruit-growers' Association, a Vegetable-growers' Association, and now an association of florists, the horticultural interests of the Province should certainly not suffer for lack of organization.

APIARY.

Ontario Beekeepers' Association.

The Ontario Beekeepers' Association held its annual convention in connection with the Fruit, Flower and Honey Show, Toronto, Nov. 15th, 16th, 17th, 1905. The sessions were very well attended, and in interest and practical value equal to the best that have been held by this Association for some time. In his opening address, President H. G. Sibbald congratulated the members on having had a fairly successful year. The bees came through the exceptionally hard winter of 1904-05 with a comparatively small percentage of loss. Some changes in the inspecting of apiaries were recommended. It was resolved to ask the Minister of Agriculture to bring in and pass at the next session of the Ontario Legislature certain amendments to the Foul Brood Act, by which the Province would be divided into three districts, with an inspector for each. The treasurer reported the finances of the Association to be in a healthy condition.

The Hon. Nelson Monteith addressed the convention. He said he felt the efforts of beekeepers in the Province were giving good results. We have a large Province, over all of which bees could be kept. At present the industry is only carried on in a small section of the Province, yet it represents an investment of about \$1,200,000. The beekeepers are turning out an excellent article, but are too modest to advertise properly. You haven't pushed your business enough, said Mr. Monteith. Honey, as one of the best natural foods, should be used much more by the people than it is. If everyone knew that one pound of honey is equal in food value to about five pounds of pork, much more of it would be substituted for pork. Also in the matter of varieties of bees it is well to be ambitious for something more than what we have. Whenever we think we have reached the ideal we begin to lose ground. Mr. Monteith remarked, further, that the bee business has a wider sphere than honey. It is of immense value to the fruit and seed growers. He stated that it was for this reason he became a beekeeper himself. In this connection the Association passed the following resolution:

"That this Association would respectfully solicit the Hon. Nelson Monteith, Minister of Agriculture for Ontario, to have the proper officers of the Department of Agriculture conduct a series of experiments with the object of securing evidence as to the value or otherwise of bees in acting as agents in the fertilization of blossoms, such as fruit bloom, alsike and red clover, and buckwheat, with the object of arriving at the value or detriment of these visits by the bee in increased or decreased value of the crop. That this and other testimony of value upon the subject be published in the form of a Bulletin, and every other available means; and that a special invitation be publicly extended to anyone who has evidence that bees injure crops by gathering nec-

tar from blossoms, and that such evidence, if any, be also published through the above channels."

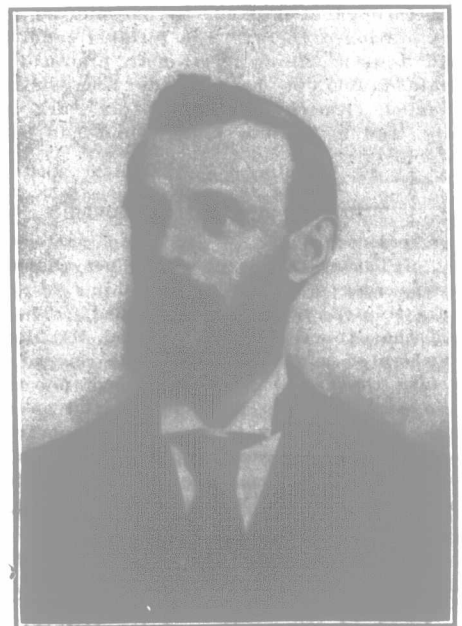
Mr. R. H. Smith, St. Thomas, gave a paper on "Systematic Advertising and Marketing of Honey."

The marketing of honey, said Mr. Smith, is a simple matter once you have a regular line of



H. G. Sibbald.

President Ontario Beekeepers' Association.



R. H. Smith.

Vice-president Ontario Beekeepers' Association.



Wm. Couse.

Secretary Ontario Beekeepers' Association.

customers and the reputation for a good article. He then proceeded to emphasize a few points on creating a market. One cannot get up a fancy name or trade-mark, as honey is a natural food product. Do not send honey to large cities where so many seek a market, but make a house-to-house canvass in your own town. Make an exhibit at the

township or county fair. Attend the fair directors' meetings and urge them to improve their prize list, providing for large exhibits of 100 or 200 pounds honey, which will attract attention. Give samples of honey to prospective buyers. Call on local dealers regularly with a supply of honey in packages of various sizes, to suit their class of trade. In shipping honey, do not use "home-spun" packages. Happily, in Canada, we have very little adulteration, and, although there is still room for improvement, the demand and use of honey has enormously increased during the past few years, and will continue to increase as its value becomes better known.

Prof. F. T. Shutt, of the Central Exp. Farm, Ottawa, described experiments on the granulation of honey and in clarifying wax. He had raised samples of honey to temperatures of 122 degrees F. and 158 degrees F., and found that in either case they had remained liquid, since Sept. 18th, when the heating was done, while honey which had not been so heated was granulated quite hard. He found that keeping in light or darkness, agitation, or cold storage, seemed to have no effect on the granulation of honey. But that the honey kept in the light, whether granulated or liquid, was quite perceptibly bleached in color, and seemed to have lost in flavor. With reference to flavor, Prof. Shutt had learned that heating honey to a high temperature certainly injures the flavor. He explained this by the fact that neither the levulose nor the glucose give honey its flavor, but certain minute quantities of undetermined volatile oils, which can and do at a high temperature escape. With reference to bleaching wax Prof. Shutt had made exhaustive experiments, and found that one per cent. nitric acid gave best results. To bleach without chemicals, melt the wax in warm water, pour off the water and repeat the operation several times, then shred the wax and expose to a damp atmosphere and sunlight.

OUT APIARIES.

Mr. Denis Nolan, Newton-Robinson, took up this subject, which is of growing importance to beekeepers. As to the value of out apiaries, Mr. Nolan said that in his experience one hundred colonies is all that can be kept profitably in an average location and in an average year. To increase this number might mean that you reduce the yield per colony, increase the desire to swarm, and have a larger amount of brood and bees to sustain on the nectar of the field covered. To reduce the number means you reduce the income on some investments, viz., cost of establishing yard, cost of maintaining yard, etc.. In establishing out apiaries, he would consider locality, with reference to overstocking, flora, etc.; also consider site of yard. It should be sheltered for outdoor wintering and have no live trees. Have good tight house for extracting. Store honey at the out-yard, if possible, instead of hauling it home. In all things, Mr. Nolan said, do your work systematically and reasonably, not putting off till to-morrow what you can do today.

Mr. Morley Pettit, Villa Nova, read a paper on "What Can be Done to Make the Association More Useful to Beekeepers." He said the object of the Association was the advancement of the beekeeping interests of this Province. This is effected by an annual convention where the members meet, and face to face discuss and exchange ideas on both the practical and the business side of beekeeping. Second, by the continual and persistent effort of the directors and officers to develop beekeeping as a business, and overcome the obstacles in its way.

Mr. Pettit proceeded to give the convention some kindly criticism, and to offer suggestions. Other branches of agriculture are receiving strong Government support in the way of opening up markets and the proper grading and distribution of products. Honey is neglected. Other lines are put to the front—beekeeping is crowded back. The fault lies principally with the beekeepers themselves. They do not use to best advantage the Government aid already received, and until they do, cannot hope for more.

Prof. Harrison had already pointed out a line of work for the Association in the way of sending out men to speak at Farmers' Institutes and other farmers' meetings.

The election of officers resulted as follows:

President.—H. G. Sibbald, Claude.

Vice-Presidents.—R. H. Smith, St. Thomas, and F. J. Miller, London.

Secretary.—Wm. Couse, Streetsville.

Treasurer.—Martin Emigh, Holbrook.

Directors.—W. J. Brown, Pendleton; J. K. Darling, Almonte; M. B. Holmes, Athens; R. Lowey, Cherry Valley; Mr. John L. Grosjean; Jacob Alpaugh, Galt; Jas. Armstrong, Cheapside; R. H. Smith, St. Thomas; G. A. Deadman, Brussels; F. J. Miller, London; Denis Nolan, Newton-Robinson; Prof. Sherman, O. A. C., Guelph.

Representatives.—Toronto Fair, E. Grainger; London, J. B. Hall; Ottawa, J. K. Darling.