

use of cement in engineering works had also attained great prominence.

Professor C. H. McLeod, M.E., chief astronomer of McGill University, was present as a representative of the Canadian Society of Civil Engineers. He was sent by the Engineering Society to cooperate with the O. L. S. in endeavoring to have legislation introduced defining the status of civil engineers in Ontario.

The Committee on Polar Research presented a short report.

Mr. L. B. Stewart presented the report of the Committee on Topographical Survey. He gave a brief resume of what had been done in that branch of the science during the past year, and impressed upon his hearers the importance of basing a topographic survey upon a geodetic survey.

Mr. Milton C. Schofield, of Guelph, furnished the association with a list of reported cases in land surveying. It was decided to refer them to a committee and have their report incorporated into the minutes of this annual meeting.

The report of the Committee on Land Surveying was presented by Mr. M. Gaviller, of Collingwood, in which he stated that the large demand for mining location surveys and supplying information for the development of the same had afforded a promising opening to those who, before qualifying, had taken the technical course now so well supplied by several of the colleges. He expressed pleasure that the majority of those preparing for the final O. L. S. examination had availed themselves of the opportunities afforded by the colleges. Attention was also drawn to the addition of botany and Canadian forestry to the list of subjects for the final examination. The almost universal ignorance of the growth and protection of timber, the report read, had been a source of loss to the country the extent of which it would be difficult to estimate.

It was decided, on motion by Mr. Gaviller, that a list of "reported cases," furnished by Mr. Milton C. Schofield, Guelph, should be referred to the Committee on Land Surveying, in order that it might be incorporated in their report.

In the evening the annual dinner was held at McConkey's restaurant. The usual toasts were honored and responded to in a hearty manner. Recitations and selections on the graphophone added to the pleasure of the evening.

THIRD DAY.

After the reception of the auditors' report and the reading of several papers, Mr. Gaviller, in answer to a question regarding high water mark from E. S. Jenkinson, gave a succinct statement of the case. The starting point of the four rods allowed by the government was not clearly defined. High water mark is where vegetation ceases. This was Mr. Gaviller's opinion. The association was asked to express its opinion also.

"High water mark is where vegetation begins to grow," said A. Niven. He thought the Crown Lands Department should lay this down as a guide henceforth.

M. J. Butler submitted the following resolution: "That the secretary be instructed to communicate with the Commissioner of Crown Lands, placing before him the necessity of an accurate instruction to surveyors with respect to planting posts on the shores of inland lakes and navigable rivers, and it is the opinion of this association that high water mark ends at the beginning of the line of vegetation." This was carried almost unanimously.

Prof. McLeod was introduced, and spoke in substance as follows: "The Canadian Society of Civil Engineers is a Dominion incorporated company. The intention of the society was to make the profession of engineering a close corporation

in the provinces. The idea was to have the provincial government define what was meant by a civil engineer. Such an act has been passed by the Legislature of Quebec. In Canada civil engineering is the only profession to which an unqualified person can belong." He contended that no infringement upon the rights of the Ontario Land Surveyors was contemplated.

The report of the council upon the meaning of personal supervision was accepted. This applied strictly to engineering in mining locations. A surveyor making a certificate of supervision should be personally present and direct the survey when it is made.

Expressions of condolence were passed upon the deaths of members since last meeting. Letters expressing such regret were authorized to be forwarded to the bereft families.

By-laws Nos. 45 and 46 were ratified. By No. 45 a registered surveyor can give up practice upon giving notice of his desire so to do, but such surveyors can still have the privileges of the association by paying \$1 a year. No. 46 stated that a surveyor who has practised for 35 years is exempt from association fees.

J. J. Murphy's paper on "Unrecorded Original Field Notes," and Otto J. Klotz's



MR. P. S. GIBSON,
President Ontario Land Surveyors.

paper upon "Lake Erie Survey" were taken as read and recorded in the minutes. The report of the committee on drainage was dealt with similarly.

ELECTION OF OFFICERS.

Messrs. Gamble and Whitson, of Toronto, were appointed scrutineers. The following officers were declared elected by acclamation: President, P. S. Gibson, Willowdale; vice-president, H. J. Bowman, Berlin; secretary-treasurer, H. J. Van Nostrand, Toronto; auditors, H. L. Esten, Toronto, and A. W. Campbell, Toronto.

On the first Monday in April two of the following gentlemen will be elected to the Council of Management for three years: J. L. Morris, Pembroke; George Ross, Welland; F. L. Foster, Toronto, and W. F. Van Buskirk, Stratford. The other members of the council are: Hon. J. M. Gibson, Hamilton; George B. Kirkpatrick, Toronto; Villiers Sankey, Toronto; J. W. Tyrrell, Hamilton; Alex. Niven, Haliburton.

A hearty vote of thanks was tendered the retiring president, Major T. Harry

Jones, of Brantford. Mr. A. J. Van Nostrand was cheerfully voted \$200 for the energetic way in which he had discharged his onerous duties.

Villiers Sankey read the report of the committee appointed to confer with a committee from the Canadian Society of Civil Engineers, Montreal. The report recommended that no steps be taken along the line proposed by Prof. McLeod until the whole matter had been placed before the 200 surveyors in Ontario. It suggested that a circular letter should be issued by the Canadian Society of Engineers, and sent to all members of the O. L. S. Society.

A motion was carried that a committee, consisting of Messrs. Kilpatrick, Niven and Sankey, be appointed to deal with the bill proposed by the Canadian Society of Civil Engineers. This committee was appointed in order that surveyors out in the province may know that their interests are being looked after by men who are not "biased engineer-ward," as Mr. Butler expressed it.

PAPERS READ.

During the meeting papers on the following subjects were read: "The Sewage Purification of Worcester, Mass." by W. F. Van Buskirk, of Stratford; "The Sudbury Waterworks," by S. V. Rorke, Sudbury; "Evidence," by M. J. Butler, Napanee; "The York Street Bridge," by A. P. Walker, Toronto; "An Illustration of the Necessity for Accurate Descriptions," by Geo. Ross, of Welland; "Assessment Plans," by P. S. Gibson, Willowdale; "Specifications," by James Hutcheon, Guelph; "Sand Cement," by M. J. Butler, Napanee; "The Kinburn Swamp Drain," by F. W. Farncombe, London; "Arbitrators and Witnesses," by H. J. Bowman, Berlin; "The Use of Field Tile for Large Drains," by A. R. Code, Alvinston; "Forestry in Its Relation to Land Surveying," by T. N. Southworth, Toronto; "Irrigation of Dominion Lands," by A. W. Ponton, Regina, Assa; "Acetylene Gas and Its uses," by V. M. Roberts, St. Catharines; "Progress on Lake of the Woods," by H. De Q. Sewell, Rat Portage, Ont.; "Unrecorded Original Field Notes," by J. J. Murphy, Toronto; "The Economic Resources of the Hudson Bay," by J. W. Tyrrell, Hamilton; "Some Causes of Loss in Gold Mining in Ontario," by Capt. J. D. Williams, Rat Portage; "Lake Erie Survey," by Otto J. Klotz, Ottawa.

BUSINESS NOTES.

Chapelle and Edwards, plumbers, Trial, B. C., have dissolved partnership.

Hebden & Hebden have commenced business as plumbers at Nelson, B. C.

James W. Pyke has registered as proprietor of the Phoenix Bridge and Iron Works, Montreal.

The Toronto & Orillia Stone Quarry Co. are advertising for sale in this paper their lime stone quarry at Longford.

The Royal Artificial Stone Paving Co. has been organized at Guelph, Ont., with Mr. A. G. Burt, of Ridgetown, as manager.

The annual meeting of the Hamilton Iron & Steel Co. was held at Hamilton last week, at which a dividend of 4% was declared. Mr. J. H. Tilden was elected president.

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