

tions and their activities. The increase in membership included 38 members, 46 associate members, 1 associate, 43 juniors and 169 students. Transfers comprised 29 from associate member to member, 21 from junior to associate member, 26 from student to associate member, 48 from student to junior and 1 from student to member. A total of 19 were removed from the membership by death. The following is a summary as recorded at the close of 1914:—

Honorary members .....	10
Members .....	674
Associate members .....	1,372
Associates .....	26
Juniors .....	352
Students .....	315

3,059

At the monthly meetings of the Society, held in Montreal, the following papers were read and discussed during the year:—

- St. Lawrence River Bridge.—Mr. P. B. Motley.
- Building Superstructures, Built by the Pneumatic Method.—Mr. John W. Doty.
- Pulp and Newspaper Manufacture.—Mr. J. Stadler.
- Subaqueous Tunneling.—Mr. P. A. N. Suerot.
- Road Improvement in the Province of Quebec.—Mr. G. Henry.
- Fire Control in Relation to Military Rifle Fire.—Mr. A. C. Geddes.
- The System of Unit Construction in the Concrete Power House at Cedars, Que.—Mr. John E. Conzelman.
- Mushroom Construction.—Mr. C. A. P. Turner.
- An Integrating Weighing Machine for Materials in Motion.—Prof. H. E. T. Haultain.
- The Wielder of the Weapon.—Prof. H. E. T. Haultain.
- Methods of Treatment of Sewage Sludge.—Prof. P. Gillespie.

The following papers were read and discussed before meetings of the electrical section in Montreal:—

- Performance of Electrical Insulators.—Mr. Julian C. Smith.
- Making Our Water Powers Valuable.—Mr. Arthur Surveyer.
- Before the meetings of the mechanical section in Montreal, the following papers were read:—
- Steel Car Shops at Angus, Que.—Mr. L. C. Ord.
- Steel Passenger Car Frame Construction.—Mr. C. Brady.
- Heavy Artillery.—Lieut. S. T. Layton.

To the mining section were presented the following papers:—

- The Electrical Driving of Winding Engines and Roller Mills.—Mr. C. A. Ablett and Mr. H. M. Lyons.
- The Evolution of Stopping Methods in Mining During the Last Decade.—Mr. C. A. Macaulay.
- Top Slicing System of Mining, as Practised at the Mines of the Detroit Copper Co., Morenci, Ariz.—Mr. J. R. McLean.

Modern Artillery in the Field.—Lieut. S. L. Brunton.

At meetings of the junior section papers were read and discussed as follows:—

Contracts and Costs of Brick Veneer Building Construction.—Mr. J. H. Norris.

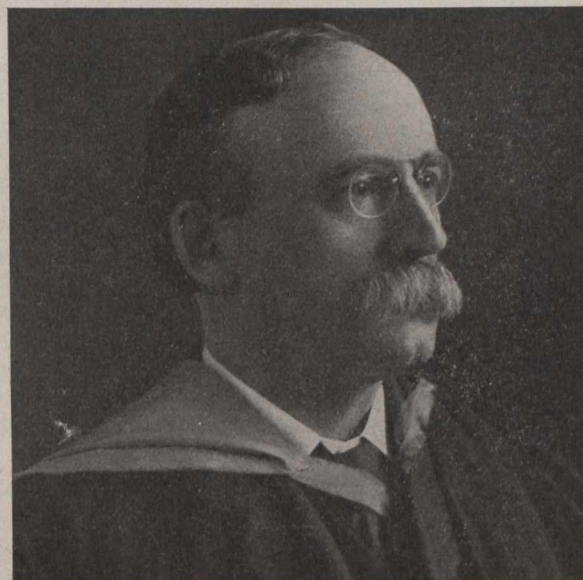
Movable Bridges.—Mr. J. Robertson.

The Moose Jaw Water Supply.—Mr. R. M. Walker.

The Sub-Structure of the Fraser River Bridge at Fort George.—Mr. H. L. Bodwell.

**Extracts from Report of Council.**—In its report the Council mentions the resolution adopted at the last annual meeting in regard to the co-ordination of surveys. It is stated that the resolution had been transmitted to the Dominion Government, but that no advance seemed to have been made by the latter up to the close of the year.

The Council acted in conjunction with the Institution of Naval Architects, the Institution of Civil Engineers and



**PROF. C. H. McLEOD.**

*Secretary, Canadian Society of Civil Engineers.*

other associations in connection with the establishing of a memorial to the late Sir William Whyte, an honorary member of the Society.

In view of the resolution of the annual meeting regarding the question of datum planes, to which the attention of the Society had been called by the British Columbia branches, the Council, after some consideration, placed itself on record as of the opinion that the same plane of reference should, if at all practicable, be employed throughout the whole North American continent. As this would involve consultation with the United States Coast and Geodetic Survey, the Secretary was instructed to seek the co-operation of Dr. W. F. King as the officer in charge of Geodetic Surveys of Canada.

On account of the unsettled conditions arising from the war no definite plans have been made for the proposed summer convention of 1915, to be held in British Columbia. The Vancouver and Victoria branches suggest June as the most suitable time, and Victoria as the most suitable place, the proposal being to visit Vancouver and surrounding engineering works at the close of the convention.

In calling the attention of members to the importance of contributing papers for the Transactions of the Society,