

attain to general success in making the best use of the materials which are at our disposal."

While it is true that we are still largely dominated by false ideas, it is also true that persistent work and agitation is bringing about substantially beneficial results. When the forestry branch of the department of the interior was established seventeen years ago, there was not at that time known to be a single trained forester in Canada. To-day there are 150 trained foresters in addition to 73 forestry students who have enlisted.

Sir Clifford Sifton stated that with regard to forestry, the various organizations at work have been successful in bringing about perhaps the greatest degree of improvement that is observable in connection with any department or branch of natural resources.

In the conservation of water powers, Sir Clifford said the different agencies at work have been, on the whole, fairly successful, although there is a continual struggle going on against the improvident alienation of power, and we are constantly required to be on our guard.

PERSONALS

Lieut. ERNEST IRVING GILL, B.A.Sc., of 1914, who went overseas with the R.C.H.A. and transferred to the C.F.A. when he reached France, is reported wounded.

Gunner E. B. DUNSTAN, who has been awarded the Military Medal, enlisted with the 25th Battalion, mostly composed of university men. He attended the School of Applied Science in Toronto, and went overseas in January, 1916.

H. H. ADAMS, a former division superintendent of the Michigan Central, and later the general manager of the T.H. & B. at Hamilton, Ont., is serving in France as commanding officer of a United States battalion of Engineers.

STEPHEN P. BROWN, B.Sc., formerly chief engineer of the Mount Royal Tunnel and Terminal Co., Limited, has been appointed vice-president and general manager of the Ford, Bacon & Davis Corporation, general contractors, of New York City. Mr. Brown is a graduate of the Massachusetts Institute of Technology, and since 1915 has been a member of the Council of the Canadian Society of Civil Engineers.

Flight-Commander HAROLD SPENCER KIRBY, B.A.Sc., a graduate of the School of Applied Science in the University of Toronto, is now at his home in Calgary, Alta., on furlough. He was invalided from the Dardanelles in April, 1916, and returned to England in October of the same year. Since then he has been with the Royal Naval Air Service serving in France, where he won the rank of flight commander. Not long ago he was awarded the Distinguished Service Cross for great courage and initiative shown on many occasions.

HENRY J. FULLER, president of the Canadian Fairbanks-Morse Co., Limited, and a former resident of Montreal, was elected president of the Vermont organization of E. & T. Fairbanks & Co., at a recent meeting of the board held at St. Johnsbury, Vt. The election of Mr. Fuller to this office is but another move which serves more closely to unite Canadian and American organizations, as Mr. Fuller is not only president of the Canadian Fairbanks-Morse Co., Limited, but is also a director of the Canadian Bank of Commerce, the National Trust Co. of Canada and other industrial concerns in the Dominion.

CANADIAN SOCIETY OF CIVIL ENGINEERS

The fourth meeting of the 1917-18 session was held Thursday, December 6th, at 8.15 p.m. Mr. Walter J. Francis, chairman of the Papers and Meetings Committee, occupied the chair. The speaker, Mr. George F. Porter, M.Can.Soc.C.E., engineer of construction, St. Lawrence Bridge Company, gave a description of the erection of the superstructure of the Quebec Bridge, illustrated by a splendid series of lantern slides.

Mr. Walter J. Francis, as chairman, expressed regret that Capt. Duchastel was unable to be present owing to an accident which confined him to a hospital.

In his opening remarks the speaker, Mr. Porter, said: "Gentlemen, I am very pleased that the chairman described this as an informal talk, as I have prepared no paper, but have selected slides from about eight hundred photographs which were taken during the progress of the work. The enormous size of the bridge and the greatness of the undertaking make it impossible to describe the work in detail. The slides which have been selected will show you in a more vivid manner than any verbal explanation I might give, how the work was undertaken and carried on."

In proposing a hearty vote of thanks to the speaker of the evening, Mr. R. A. Ross expressed the sentiments of the meeting in saying that those present were to be congratulated on having had the privilege of hearing the description of the work and seeing the splendid slides.

The third address of the series on the Quebec Bridge will be given by a past president, Mr. Phelps Johnson, who will lecture December 20th, giving more detailed views of the shop work necessary in the fabrication of the bridge.

CAN. SOC. C.E. MANITOBA BRANCH

The following program has been arranged for the Manitoba branch of the Canadian Society of Civil Engineers:

December 18th, "Lignite Coal as Applied to Modern Steam Plants," T. L. Roberts; January 3rd, "Single Phase Power from Three Phase Systems," F. H. Farmer; January 21st, "Durability of Concrete in Western Canada," F. J. Greene; February 7th, "Electrical Systems for Automobiles," J. F. M. Wilson; February 18th, "Foundations for High Buildings," B. S. McKenzie; March 7th, "Operation of the Winnipeg Electrical Railway," R. H. Long; March 18th, "Modern Steam Practice," Theodore Kipp; April 4th, "The City Light and Power Department," E. V. Caton and J. G. Glassco; April 15th, "Operations of Hydrographic Department," M. C. Hendry; May 2nd, "Powdered Fuels," George Pratt; May 20th, "Rates for Electric Service," R. A. Sara.

The following is a list of patents recently issued through the agency of Messrs. Ridout and Maybee, 59 Yonge St., Toronto: John R. Blakeslee, processes of making bolts, spikes and the like; Percy E. Correll, the construction of headlamps; Arthur Bequelin, time switch; Alfred G. Fox, means for feeding fuel to furnaces; George W. Berry, apparatus for forming hinge members on the lids and bodies of sheet metal receptacles; John Flint, compounds for use in lieu of rubber; John G. Robinson, steam superheaters; Victor A. G. Cecil, water heaters.