

of money, not only on lateral roads, but on local highways, that would provide proper communications for the people, he declared. The chief interest lay in the home, then in the community in the province and in the Dominion, and they should adopt this principle in their highway problems, first providing roads for the community in order that they might link up all the people in the community and create a healthy community spirit. They have gotten past that to a certain extent, and have to branch out and link the different communities together to make a united province. When past that, the great problem will be to get a broader viewpoint and reach out further and link up all the larger provincial communities in order that we may have a Dominion sentiment, and that is the problem the Canadian Good Roads Association is trying to solve, and towards the solution of which they are directing all their energies.

Duty of Federal Government to Highways

Mayor T. L. Church, of Toronto, gave a brief address, in which he pointed out that the Dominion government has paid over \$900,000,000 of the people's money, directly and indirectly, to the railways, but have never had any money to spend on the King's highway, except an old wagon road, built shortly after British Columbia entered Confederation. He said 500,000 men had left Ontario in the past ten years and gone elsewhere because of lack of good roads, proper telephone and telegraph systems and cheap light and power. The solution lay in the provision of good roads and a system of international waterways throughout the country. There should be a trunk highway from Halifax to Vancouver, and that would do a great deal to solve the economic problems of the day. There is a serious lack of vision on the part of the federal authorities, and the time has come when the people of the country must go forward and demand good roads. The average member of the county council and farmer has far more vision and is far in advance in the matter of public opinion in regard to good roads than some of the people representing them in parliament. We have done enough for the railways, and the federal government must give additional assistance to the highways immediately.

A. McGillivray, who presided, remarked that Manitoba has the same problems as Saskatchewan, and the government is co-operating with the municipalities in developing the main market roads and endeavoring to lay out a provincial highway system from Winnipeg to the western boundaries of the province. They do not hope to build the high-class roads which the eastern provinces are doing, for they look forward to gravel as being the standard, for some years at least, on their main roads in the province. They have under way a very heavy program of gravel road construction which will take them five years at least.

W. P. Near, city engineer of St. Catharines, Ont., presented his paper on concrete roads, and replying to B. Michaud, of Quebec, who asked if he knew of any important work where they have omitted expansion joints, Mr. Near said they had been omitted in some of the states on miles of work, an expansion joint being put in only at the end of a day's work.

Other papers presented (or taken as read on account of lack of time), included "Road Oils and Carpet Coats," by J. A. Duchastel; "Refined Tar in Construction and Maintenance," by Andrew Macallum; and "Traffic Census," by W. A. McLean.

At the annual meeting of the Canadian Good Roads Association, held Thursday evening, A. E. Foreman was elected president for the ensuing year; Dr. E. M. Desaulniers, first vice-president; and Hon. S. J. Latta, second vice-president. A full report of this annual meeting will appear in next week's issue.

List of Delegates

Following is a complete list of the delegates who registered, excluding those resident in Winnipeg:—

A. M. Arnott, reeve, Riverside municipality, Hyder, Man.; Capt. Lucius E. Allen, pres., Ont. Good Roads Association, Belleville, Ont.; Fred Armstrong, councillor, Carman, Man.; Duff A. Abrams, prof. in charge, Structural Materials Research Laboratory, Lewis Institute, Chicago; S. Archer,

reeve, Sutton municipality, Ettington, Man.; E. Ashton, chemical engineer, "Lehigh," Allentown, Pa.

J. W. Baldrick, good roads engineer, Brandon, Man.; N. Breton, councillor, Letellier, Man.; J. E. Battershell, engineer, East Kildonan, Man.; S. A. Button, good roads dist. engineer, Brandon, Man.; Thos. Brown, sec.-treas., Selkirk, Man.; A. H. Browning, councillor, Charleswood, Man.; Hon. B. Bowman, minister lands and forests of Ontario, Toronto; W. D. Bliss, Ottawa, Ont.; H. W. Bright, Municipal Districts Association, Alberta, Macleod, Alta.; Hon. F. C. Biggs, minister of highways of Ontario, Toronto.

A. W. Campbell, Dominion commissioner of highways, Ottawa; Geo. F. Chapman, reeve of Charleswood, Man.; Controller Cameron, controller of works, Ottawa; W. Chapple, councillor, Shoal Lake, Man.; E. Casselman, mayor, Emerson, Man.; T. W. Clarke, municipal engineer, Gladstone, Man.; M. Cameron, vice-pres., Saskatoon Municipal Association, Saskatoon; A. E. Counsell, salesman, Cleveland Tractor Co., Regina; H. S. Carpenter, deputy minister of highways, Saskatchewan, Regina, Sask.; A. Coles, councillor, Strassbourg, Sask.; E. S. Church, M.L.A., Shellbrook, Sask.; S. A. Churchill, assist. supt. public works, St. Johns, Newfoundland; R. H. Cameron, controller, Toronto; L. C. Charlesworth, deputy minister public works, Edmonton, Alta.; Wm. H. Connell, consulting engineer, Philadelphia, Pa.; T. L. Church, mayor, Toronto.

Alderman Dennison, Ottawa; V. E. Duclos, sales dept., Canada Cement Co., Regina, Sask.; Chas. W. Dill, supt. of highways, Regina, Sask.; J. A. Duchastel, city engineer and manager, Outremont, Que.; Dr. E. M. Desaulniers, physician, Montreal, Que.; J. T. Davies, Neepawa, Man.; Dr. P. E. Doolittle, ex-pres., Ontario Motor League, 619 Sherbourne St., Toronto.

T. H. Emes, reeve, West St. Paul, Middlechurch, Man.

E. R. Finch, town engineer, Kenora, Ont.; J. E. Freeman, engineer, Tech. Bureau Portland Cement Association, Chicago, Ill.; John Foster, reeve, Keyes, Man.; A. G. Fleming, chief chemist, Canadian Cement Co., Montreal; A. E. Foreman, chief engineer, public works dept., Victoria, B.C.; Allan Findlay, dist. engineer, Manitoba Good Roads Board, Portage la Prairie, Wm. Findlay, director, Canadian Good Roads Association, "The Globe," Toronto.

Gordon Grant, chief engineer, Dominion Highways Commission, Ottawa; W. S. Gibson, Port Credit, Ont.

Wm. Heale, councillor, Teulon, Man.; G. R. Hill, engineer, Virden, Man.; R. D. Harper, civil engineer, Sanford, Man.; E. O. Hathaway, dist. engineer, U. S. Bureau of Public Roads, Minneapolis, Minn.; N. J. Hansen, councillor, Keewatin, Ont.; A. R. Hirst, state highway engineer, Madison, Wis.; G. A. Hodgson, pres., Ontario Motor League, Toronto.

Chas. E. Ivens, reeve, Wallace municipality, Virden, Man.

A. E. Jennings, assist. general manager, *The Canadian Engineer*, Toronto.

J. H. King, minister public works, Victoria, B.C.; W. W. King, publicity dept. Canadian Cement Co., Oakville, Ont.; Brig.-Gen. Kirkcaldy, Brandon, Man.; Thos. L. Kennedy, director, Ontario Good Roads Association, Dixie, Ont.; Russell T. Kelley, president, Board of Trade, Hamilton.

Hon. S. J. Latta, minister of highways, Saskatchewan, Regina, Sask.; C. C. Lapierre, Montreal; John J. Lamb, member, Saskatchewan Municipal Association, Ogema, Sask.; C. W. Lowman, assist. dist. engineer, Portage la Prairie, Man.

C. J. Mackenzie, prof. of engineering, University of Saskatchewan, Saskatoon; Fred E. McKenney, road drags, Boisvevain, Man.; G. A. McNamee, Montreal; Andrew F. Macallum, commissioner of works, Ottawa; Col. W. G. Mackendrick, Toronto; J. H. McKie, councillor, Neepawa, Man.; W. A. McLean, deputy minister of highways, Ontario, Toronto; T. A. McElhanney, assist. controller of surveys, Ottawa; D. J. Miller, dist. engineer, Manitoba Good Roads Board, Minnedosa, Man.; B. Michaud, deputy minister of roads, Quebec, Que.; D. L. MacQuarrie, Regina, Sask.; P. W. Mullins, municipal engineer, Selkirk, Man.; H. R. Mackenzie, chief field engineer, department of highways, Regina, Sask.; A. B. Macdonald, Cranbrook, B.C.; Malcolm