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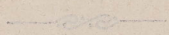
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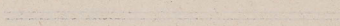
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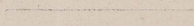


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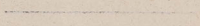
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- Mills, James, M.A., LL D., Ontario Agricultural College, Guelph.
- Milne, John, F.R.S., F.G.S., Shide, Isle of Wight ; W. F. Maclean, Esq., 610 Jarvis Street.
- Mordry, W. M., Redholm, Loughborough.
- Morgan, E. Delmar, F.R.G.S., 15 Roland Gardens, South Kensington, London ; 32 John Street.
- Morgan, Prof. C. Lloyd, F.C.S., University College, Bristol ; Mrs. J. Cawthorn, 150 Beverley Street.
- Morley, Prof. Edward W., Adelbert College, Cleveland, Ohio ; Kensington Hotel.
- Morris, J. T., 13 Somers Place, London.
- Moseley, E. E., Sandusky, Ohio.
- Mullins, W. E., Preshute House, Marlborough, Wilts, England ; Grosvenor Hotel.
- Munro, Robert, M.A., M.D., 48 Manor Place, Edinburgh ; Queen's Hotel.
- Musgrave, Dr. James, 511 Bloor Street West.
- Myers, Wm. S., New Brunswick, N.J.
- Myres, John L., M. A., F.S.A., Christ Church, Oxford ; Wycliffe College.
- Nesbitt, Beattie S.A., M.D., 71 Grosvenor Street.
- Nicholson, Prof. H. Alleyne, M.D., D.Sc., F.R.S., University of Aberdeen, Scotland ; Queen's Hotel.
- Norman, George, 12 Brock Street, Bath ; Captain Hooper, 37 Howard Street.
- Norton, Prof. Thomas H., Ph.D., Sc.D., University of Cincinnati, Ohio.
- Norton, William Hannon, F.G.S.A., Mount Vernon, Iowa ; 99 Gloucester Street.
- Noyer, Mary Chilton, Mount Holyoke College, South Hadley, U.S.A. ; 621 Spadina Avenue.
- Noyes, Miss Mary C., South Hadley, Mass. ; 266 Bloor St. West.
- Noyes, William, Terre Haute, Indiana ; 266 Bloor Street W.
- Nugent, Rt. Rev. Monsignor, 18 Adelaide Terrace, Waterloo, Liverpool.
- Oberholser, Harry C., Department of Agriculture, Washington, D.C. ; 254 Jarvis Street.
- Odling, Prof. W., F.R.S., 15 Norham Gardens, Oxford.
- Ogilvie, C. P., Sizewell House, Leiston, Suffolk.
- Ordway, John M., New Orleans, Louisiana ; 18 St. Mary Street.
- Orleman, Daisy M., M.D., Peekskill, N.Y. ; 266 Bloor Street W.
- Orr, William, Jr., Springfield, Mass. ; McMaster Hall.
- Osborne, James K., 40 St. Joseph Street.
- Osler, E. B., M.P., Rosedale.
- Osler, Dr. Wm., Baltimore ; 15 Queen's Park.

- Seton-Karr, H. W., Atherton Grange, Wimbledon, Surrey ; E. B. Osler, Esq., Cragleigh, Rosedale.
- Seward, A. C., M.A., Cambridge ; Wycliffe College.
- Shack, Ferdinand, B.Sc., M.A., LL.B., New York City ; Rossin House.
- Sherrington, Prof. C. S., F.R.S., 16 Grove Park, Liverpool ; Wycliffe College.
- Shore, Dr. L. E., St. John's College, Cambridge ; Wycliffe College.
- Shortt, Prof. Adam, M.A., Queen's University, Kingston, Ont.; 84 Winchester Street.
- Siemens, Alex., 7 Airlie Gardens, Campden Hill, London.
- Simpson, Thomas, F.R.G.S., Fennymore, Ealing, London.
- Sinnott, J., 12 Broad Street, Bristol.
- Skaife, Frances W., University of California, San Francisco.
- Sloan, Dr. Wm., Parkdale ; Gladstone House.
- Slocum, Charles E., M.D., Ph.D., Defiance, Ohio.
- Smart, W. T., M.D., 197 Spadina Avenue.
- Smith, Principal Andrew, Veterinary College, Toronto.
- Smith, Sir Frank, Toronto.
- Smith, Prof. Alex., F.R.S.E., University of Chicago ; 266 Bloor Street West.
- Smith, G. Elliott, M.D., St. John's College, Cambridge ; Albion Hotel.
- Smith, B. Leigh, Oxford and Cambridge Club, Pall Mall, London.
- Smock, J. C., Trenton, New Jersey, U.S.A.; Queen's Hotel.
- Spanton, W. D., Hanley, Staffordshire, , Rossin House.
- Sparkes, John, Royal College of Art, London.
- Speak, John, Kirton Grange, Kirton, Boston, England.
- Spencer, J. W., Ph.D., Washington ; 152 Bloor Street East.
- Spruce, Samuel, Beech House, Tamworth.
- Squire, W. S., Ph.D., Clarendon House, St. John's Wood Park, London ; Queen's Hotel.
- Stafford, Joseph, Morrisburg, Ont.
- Stansfield, Alfred, B.Sc., Royal Mint, London ; 19 Henry Street.
- Stebbing, W. P. D., F.G.S., 160 Gloucester Terrace, London ; McMaster Hall.
- Stevens, Prof. W. Le Conte.
- Stewart, G. N., Cleveland, O., U.S.A.; McMaster Hall.
- Stewart, Oscar M., Cornell University, Ithaca, N.Y.; 64 St. George Street.
- Stuart, W. T., M.D., 197 Spadina Avenue.
- Stupart, R. F., Observatory, Toronto.
- Swanston, W., F.G.S., Belfast, Ireland ; 18 St. Mary Street.
- Swinburne, Sir John, Bart., Capheaton Hall, Newcastle-upon-Tyne, England ; Queen's Hotel.
- Symons, W., F.C.S., Dragon House, Billbrook, near Taunton.
- Tait, Lawson, 105 Newhall Street, Birmingham, England.
- Talbott, Mrs. Laura Osborne, 927 P. Street, Washington, D.C.; 138 Yorkville Avenue.

- Tanner, J. H., Ithaca, N.Y.; 13 Grenville Street.
- Taylor, Robert S., Fort Wayne, Ind., U.S.A.; Queen's Hotel.
- Taylor, Miss S., Oak House, Shaw, near Oldham; 59 Cecil Street.
- Thomson, James A., 308 W. 145 St., New York; Queen's Hotel.
- Thompson, J. Barclay, Christ Church, Oxford.
- Thompson, Prof. S. P., D.Sc., F.R.S., City and Guilds of London Technical College, London; Walter Barwick, Esq., 151 St. George Street.
- Thompson, Prof. W. H., M.D., Queen's College, Belfast, Ireland; Mr. R. Greig, 17 Queen's Park.
- Thompson, Prof. H. D., Princeton University; H. D. Warren, Esq., 95 Wellesley Street.
- Thomson, James, 6 Stewart Street, Shawlands, Glasgow.
- Thorp, Josiah, Undercliffe, Holmfirth.
- Thorburn, James, M.D., Toronto.
- Todhunter, James, 85 Wellesley Street.
- Torrance, R., D.D., Guelph, Ont.
- Tribe, Paul C. M., 44 West Oneida Street, Oswego, N.Y., U.S.A.; 28 Grosvenor Street.
- Trotter, Coutts, 10 Randolph Crescent, Edinburgh; Queen's Hotel.
- Truell, H. P., M.B., F.R.C.S., Clonmannon, Ashfield, County Wicklow; Queen's Hotel.
- Turner, Prof. Sir William, F.R.S., 6 Eton Terrace, Edinburgh; Dr. Grasett, 208 Simcoe Street.
- Tyrrell, J. B., Ottawa; Wycliffe College.
- Unwin, John, Eastcliffe Lodge, Southport.
- Unwin, Prof. W. C., F.R.S., 7 Palace Gate Mansions, London; Lt.-Col. J. Mason, 45 Queen's Park.
- Veeder, M. A., Lyons, New York, U.S.A.; Palmer House.
- Verney, James H. Lloyd, 14 Hinde Street, London; Professor Mavor, 8 University Crescent.
- Vernon, William, Teanhurst, Tean, Stoke-on-Trent.
- Vogdes, Capt. A. W., Fort Wadsworth, Staten Island; Arlington Hotel.
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- Wager, Harold, F.L.S., Bank View, Chapel Allerton, Leeds, Yorkshire; Mrs. Fuller, 391 College Street.
- Waldo, Clarence A., La Fayette, Ind., U.S.A.; Grosvenor Hotel.
- Walker, B. E., F.G.S. (*Local Secretary*), 99 St. George Street.
- Walker, G. B., M.Inst.C.E., F.G.S., Tankersley Grange, near Barnsley.
- Walker, W. G., A.M.Inst., C.E., 47 Victoria Street, London, S.E.
- Wallace, Chancellor, Toronto.
- Waller, Dr. A. W., F.R.S., Weston Lodge, 16 Grove End Road, London; Mrs. Duckworth, 50 St. George Street.
- Ward, Prof. H. Marshall, D.Sc., F.R.S., Cambridge University; A. R. Creelman, Esq., 13 Queen's Park.

- Warner, W. R., Cleveland ; Queen's Hotel.
- Watts, W. Marshall, D.Sc., Giggleswick Grammar School, near Settle, Yorkshire.
- Webber, Major General, C.B., R.E., M.Inst.C.E., 17 Egerton Gardens, London ; Mrs. Merritt, 40 St. George Street.
- Webber, Herbert J., U.S. Department of Agriculture, Washington, D.C.; Arlington Hotel.
- Webster, Arthur Gordon, Worcester, Mass. ; 50 St. George Street.
- Welford, Albert Beverley, M.B., Woodstock, Ont.
- Wertheimer, Prof. J., B.A., B.Sc., F.C.S., Bristol.
- Western, Alfred E., 36 Lancaster Gate, London ; McMaster Hall, Bloor Street West.
- Weiss, Prof. E. F.S.S., Owen's College, Manchester ; Wycliffe College.
- Welby, Miss Frances, 16 Chenies Street Chambers, London.
- Whitcombe, Geo., Wotton Elms, Gloucester ; Mr. J. Henderson, "Amcroft," Rosedale.
- Whiteaves, J. F., Geological Survey, Ottawa.
- Whitney, E. R., 20 North Street, Binghampton, N.Y.; 41 Maitland Street.
- Whittaker, Edmund T., Trinity College, Cambridge ; McMaster Hall, Bloor Street West.
- Wickett, M., Ph.D., 339 Berkeley Street.
- Wiley, H. W., Washington, D.C.; Rossin House.
- Williams, E. S., Ty-ar-y-graig, Swansea.
- Williams, Henry S., New Haven, Conn.; McMaster Hall.
- Williams, Prof. W. C., 23 Broomgrove Road, Sheffield, Eng.; Queen's Hotel.
- Williams, W. Carleton, Firth College, Sheffield.
- Willis, Bailey, U.S. Geological Survey, Washington, D.C.; Rossin House.
- Wilson, R. N., Macleod, Alberta, N.W.T.
- Winter, G. K., Union Bank of London, 2 Prince's Street, London.
- Witmer, Prof. Lightner, University of Pennsylvania, Philadelphia, Pa.; Queen's Hotel.
- Woodall, John W., St. Nicholas House, Scarborough, Yorkshire ; Mrs. Beardmore, Beverley Street.
- Woodhull, John F., Morningside Heights, New York.
- Woodthorpe, Colonel R. G., C.B., 45 Pall Mall, London.
- Woodward, J. H., 6 Brighton Terrace, Merridale Road, Wolverhampton ; J. Hallam, Esq., 126 Isabella Street.
- Woodward, R. S., Treas. A.A.A.S., Columbia University, New York, N.Y.; Arlington Hotel.
- Wyld, Frederick, 127 St. George Street.
- Wright, Albert A., Oberlin, Ohio.
- Wright, Prof. R. Ramsay, M.A., B.Sc., (*Local Treasurer*), 703 Spadina Avenue.
- Ziwet, Alexander, 64 Washtenaw Avenue, Arbor, Mich.: Queen's Hotel.

LIST OF ASSOCIATES.

- Abell, John, 5 Madison Avenue ; 48 Abell Street
Agar, Charles J., 126 Seaton Street ; 48 Abell Street
Addison, Wm. L. T., Barrie, Ont.
Aitkin, Miss Helen J., 210 Madison Avenue
Aitken, John, 528 Bathurst Street
Allan, A. A.
Allan, Hon. G. W.
Allen, Ald. Thos., City Hall
Allan, F. B., B.A., Churchill, Ont. ; Lucas House
Alexander, A., 182 Wentworth Street South, Hamilton
Alexander, Wm. Murray, 112 St. George Street
Amyot, John N., 30 St. Joseph Street
Ami, Mrs. H. M., Ottawa, Canada ; 50 St. George Street
Anderson, T. O.
Andrews, W. W., Sackville, N.B. ; 306 Bathurst Street
Armstrong, Joseph A., Kerwood, Ont. ; 44 Adelaide Street East
Arthurs, Miss, Ravenswood, Davenport Road
Ashdown, Sydney
Ayrtton, Miss, London ; F. Wyld, Esq., 127 George Street
- Bailey, Mrs., 7 Drummond Place, Edinburgh ; Wycliffe College
Bailey, Mrs. F., Edinburgh ; Wycliffe College
Bailey, L. W., Geological Survey, Ottawa
Bain, J. Watson, 90 Charles Street
Baker, Alfred, University of Toronto
Baker, Will. C., M.A., Queen's University, Kingston, Ont. ; Kensington Hotel
Baker, W. C., M.A., 63 Czar Street
Baldwin, Rev. A. H., Toronto
Baldwin, Mrs. R., 36 Lowther Avenue
Baldwin, Russell, 36 Lowther Avenue
Ballantyne, Rev. W. D., 84 Homewood Avenue
Barnett, Miss E. A., Over-the-Way, Sutton, Surrey ; Dr. A. J. Johnson, 52 Bloor Street West
Barnhardt, W. N., M.B., 17 Madison Avenue, Detroit ; 421 Jarvis Street
Barrett, F. W., M.A., Toronto
Barrett, Miss, Dublin ; B. St. G. Lefroy, Esq., 56 Lowther Avenue
Barnum, Miss C. Charlotte, 144 Humphrey Street, New Haven, Conn. ; MacMaster Hall

Coates, John, M. Inst. C. E., Melbourne and Ottawa; 21 Madison Avenue
 Copeman, S. Monckton, M.D., 19 Cromwell Crescent, London
 Cook, William, 1 Adelaide Street East
 Cooley, G. W., 567 Yonge Street
 Crane, Ald. James, City Hall
 Creighton, David, Dept. Asst. Receiver General, Toronto
 Crew, Henry, Evanston, Illinois; Queen's Hotel
 Creelman, Adam R., Q.C., 13 Queen's Park
 Crookshank, Mrs., London; Queen's Hotel
 Curtis, Carlton C., Columbia University, New York City; Palmer House
 Cushing, Arthur R., Ann Arbor, Mich.; McMaster Hall
 Currie, P. W., Niagara Falls
 Curzon, Miss Edith, School of Practical Science
 Cushney, A. R., Ann Arbor, Mich

Darling, Frank
 Davis, Hon. E. J., Parliament Buildings
 Davidson, Mrs. Dr., 563 Jarvis Street
 Day, William S., Easthampton, Mass.
 Deacon, Miss Edith, 19 Warwick Square, London; E. H. Keating, Esq., 106 Beverley Street
 DeLury, A. T., University of Toronto
 Denne, William, New Southgate, London; Elsmore House, The Island
 Dewart, H. H., 5 Elmsley Place
 Dewart, E. H., D.D., 515 Sherbourne Street
 Doan, Martha, Indianapolis, Ind., U.S.A
 Doan, Mary, La Fayette, Indiana
 Douglas, W.
 Downey, Mrs. C. Blackstock, 20 Homewood Avenue
 Drynan, M. I., 75 Queen's Park
 Duff, John A., School of Practical Science
 Duncan, Rev. George S., 216 S. Street N.E., Washington, D.C.
 Duncan, Jas., 62 Highbury Hill, London; W. Christie, Esq., 29 Queen's Park
 Duncan, Mrs. Jas., 62 Highbury Hill, London; W. Christie, Esq., 29 Queen's Park
 Dunn, Ald. John
 Dupont, Miss, Dufferin House, John Street
 Dwight, H. C.
 Dwight, H. P.

Eadie, Andrew, 899 Queen Street West
 Eastman, Mrs. J. R., Washington, D.C.; Queen's Hotel
 Eby, M. Dorothy, Berlin, Ont
 Edwards, Charles L., University of Cincinnati, Cincinnati, O.

- Eigenmann, Carl H., Bloomington, Indiana
 Ells, Dr. R. W., Geological Survey, Ottawa ; McMaster University
 Ellis, John F.
 Elvery, Miss Amelia, The Cedars, Maison Dieu Road, Dover ; Mrs.
 Innes, 200 Beverley Street
 Elvins, A.
 Elzas, Rev. B.A., Charleston S. C., U.S.A
 Emery, Jno. W., New Sarum, Ont. ; 287 College Street
 Evans, Nevil Norton, 217 Milton Street, Montreal, Canada ; 12
 Carlton Street
 Evans, John D., Trenton ; 22 Sultan Street
 Evans, Nevil Norton, 217 Milton Street, Montreal
- Fergusson, Mrs. Chas. L.
 Fisher, Henry W., Pittsburg, Pa.
 Flaville, Mrs. J. W., 565 Jarvis Street
 Fleming, Frank A., 293 Huron Street
 Fleming, Mrs. Frank A., 293 Huron Street
 Fleming, James H., 267 Rusholme Road
 Forster, Miss Mary, 99 College Street, Buffalo, N.Y. ; 81 Oxford
 Street
 Forster, J. W. L., 83 College Street
 Foster, Miss Le Nerve, Llandudno, North Wales ; Frewen House, 9
 Queen's Park
 Foster, Dr. C. M., 1101 Yonge Street
 Foster, Major E. H., Davenport, Ont
 Foster, Mrs. E. H., Davenport, Ont
 Foster, Mrs. G. Carey, Hampstead, London ; Frewen House
 Foster, G. E., St. John's Close, Kempston, Beds., England ; Mrs.
 Hungerford, 251 McCaul Street
 Foster, Miss, Hampstead, London ; Frewen House
 Foster, Miss Mary, Workingham, Berks, England
 Foster, Mrs. Michael, Great Shelford, Cambridge ; B. B. Osler, Esq.,
 15 Queen's Park
 Foster, Miss LeNeve, Llandudno ; Frewen House
 Foster, Miss H. LeNeve, Llandudno ; Frewen House
 Fowler, James, Kingston, Ont. ; 483 Church Street
 Frame, Ald. Jas., City Hall
 Fraser, Rev. R. Douglas, Bowmanville, Ont. ; 67 Madison Avenue
 Fraser, Mrs. Alex., 3 Cær-Howell Street
 Fray, Mrs. Ellen S., 310 Madison Street, Toledo, Ohio
- Gamble, R. D., Toronto
 Garnier, Mme. L. Russell, 715 Fifth Avenue, New York City ; 415
 Spadina Avenue
 Gardner Rev. C. B., Ripley, N.Y., U.S.A. ; Mrs. Freeman's 415
 Spadina Avenue
 Garrett, A. H., 160 Bay Street

- Geikie, W. B., M.D., Toronto
 Gibson, P. S., Willowdale
 Gibson, Thos. W., 62 Boswell Avenue
 Gilman, N. P., Meadville, Pa.
 Gilray, Rev. Alex., 509 Markham Street
 Gibson, Thos., M.B., C.M., 59 Metcalfe Street, Montreal ; Rossin House
 Gilman, Prof. Nicholson P., Meadville, Penn., U.S.A. ; Elliott House
 Gordon, Colin M.
 Goulding, W., 67 St. George Street
 Gowan, Hon. J. R., C.M.G., Barrie, Ont
 Gowanlock, Ald. James, Toronto
 Goodbody, Mrs. Robert, Halden, New Jersey, U.S.A. ; Queen's Hotel
 Gooderham, W. G., Toronto
 Goodwin, Mrs. W. L., Alice Street, Kingston, Ont. ; 11 Grenville Street
 Grace, J. C., Toronto
 Graham, J. E., M.D., Toronto
 Graham, Ald. J. J., Toronto
 Graham, Ald. R. H., Toronto
 Grant, Rev. A. S., 10 Tyndall Avenue
 Grasset, F. L. R., 208 Simcoe Street
 Gresley, W. S., 348 W. 8th Street, Erie, Pa. ; 12 Carlton Street
 Greig, E. R., 17 Queen's Park
 Gregson, Mrs. W., Baldersby, S.O., Yorks, Eng. ; 419 Yonge Street
 Grindlay, W., 561 Jarvis Street
 Grimbaum, Gertrude D., London, England ; Palmer House
 Grote, Geo. W., Church Street
 Gullen, J. B., M.D., 461 Spadina Avenue
 Guman, Rev. John F., D.D., 128 University Avenue
 Guthrie, Mrs. Blanche, 21 Campden Hill Square, Kensington, W.
 Gwyn, H. B., 10 Wilton Crescent
 Gzowski, C. S., Toronto
 Hahn, Dr. Otto, 147 Roxborough Street
 Hailburton, Mrs., 9 Ridgmount Gardens, London ; Dr. McPhedran, 84 College Street
 Hale, Prof. Geo. E., Yerkes Observatory, Williams Bay, Wisconsin ; Queen's Hotel
 Hallam, Ald. John, City Hall
 Hallam, John, 85 Front Street East
 Hamilton, James Cleland, 8 Richmond Street East
 Hamilton, James R., B.A., Brantford ; 10 Sussex Avenue
 Hamilton, J. C., Toronto
 Hamilton, W. B., Toronto
 Hamilton, Robert, Motherwell, Ont. ; Knox College
 Hamilton, Eugene Lee, London and Florence ; Walker House
 Hampton, E. Alison, Flax Burton, Bristol ; Queen's Hotel

- Geikie, W. B., M.D., Toronto
 Gibson, P. S., Willowdale
 Gibson, Thos. W., 62 Boswell Avenue
 Gilman, N. P., Meadville, Pa.
 Gilray, Rev. Alex., 509 Markham Street
 Gibson, Thos., M.B., C.M., 59 Metcalfe Street, Montreal ; Rossin House
 Gilman, Prof. Nicholson P., Meadville, Penn., U.S.A. ; Elliott House
 Gordon, Colin M.
 Goulding, W., 67 St. George Street
 Gowan, Hon. J. R., C.M.G., Barrie, Ont
 Gowanlock, Ald. James, Toronto
 Goodbody, Mrs. Robert, Halden, New Jersey, U.S.A. ; Queen's Hotel
 Gooderham, W. G., Toronto
 Goodwin, Mrs. W. L., Alice Street, Kingston, Ont. ; 11 Grenville Street
 Grace, J. C., Toronto
 Graham, J. E., M.D., Toronto
 Graham, Ald. J. J., Toronto
 Graham, Ald. R. H., Toronto
 Grant, Rev. A. S., 10 Tyndall Avenue
 Grasset, F. L. R., 208 Simcoe Street
 Gresley, W. S., 348 W. 8th Street, Erie, Pa. ; 12 Carlton Street
 Greig, E. R., 17 Queen's Park
 Gregson, Mrs. W., Baldersby, S.O., Yorks, Eng. ; 419 Yonge Street
 Grindlay, W., 561 Jarvis Street
 Grimbaum, Gertrude D., London, England ; Palmer House
 Grote, Geo. W., Church Street
 Gullen, J. B., M.D., 461 Spadina Avenue
 Guman, Rev. John F., D.D., 128 University Avenue
 Guthrie, Mrs. Blanche, 21 Campden Hill Square, Kensington, W.
 Gwyn, H. B., 10 Wilton Crescent
 Gzowski, C. S., Toronto
- Hahn, Dr. Otto, 147 Roxborough Street
 Hailburton, Mrs., 9 Ridgmount Gardens, London ; Dr. McPhedran, 84 College Street
 Hale, Prof. Geo. E., Yerkes Observatory, Williams Bay, Wisconsin ; Queen's Hotel
 Hallam, Ald. John, City Hall
 Hallam, John, 85 Front Street East
 Hamilton, James Cleland, 8 Richmond Street East
 Hamilton, James R., B.A., Brantford ; 10 Sussex Avenue
 Hamilton, J. C., Toronto
 Hamilton, W. B., Toronto
 Hamilton, Robert, Motherwell, Ont. ; Knox College
 Hamilton, Eugene Lee, London and Florence ; Walker House
 Hampton, E. Alison, Flax Burton, Bristol ; Queen's Hotel

- Harcourt, Miss Vernon, Cowley Grange, Oxford ; I. H. Cameron Esq., 307 Sherbourne Street
- Harcourt, Hon. R., Toronto
- Harcourt, R., Ontario Agricultural College, Guelph ; 1070 Bathurst Street
- Harpten, Miss M. Alain, Flax Burton, Bristol ; Queen's Hotel
- Hart, Rev. E. J., B. A., 351 Givens Street
- Harvey, Rueben
- Haultain, Theodore Arnold, M.A., 92 Bellevue Avenue
- Haultain, Herbert E. T., Johannesburg, S. A. ; 91 Bellevue Avenue
- Hawksley, Mrs. Charles and Miss Alice, 60 Porchester Terrace, London, England ; Queen's Hotel
- Haydon, James S., 383 Markham Street
- Hay, C., M.D., Toronto
- Hayes, Ellen, Wellesley, Massachusetts, U.S.A. ; McMaster Hall, Bloor Street
- Hazen, Mrs. J. C., Pelham Manor, N.Y. ; 240 College Street
- Heaton, Mrs., Newcastle House, Park Terrace, Nottingham ; Wycliffe College
- Hedley, James, 79 St. Joseph Street
- Henderson, Miss Jane Buchanan, M.D., 23 Royal Crescent, Glasgow ; 49 Bellevue Avenue
- Henderson, Miss Janetta, 23 Royal Crescent, Glasgow ; 49 Bellevue Avenue
- Hill, E. S., B.A., Guelph, Ont. ; 4 Classic Avenue
- Hodgins, F. B.
- Hodgins, George S.
- Hodgins, Thomas G., 23 Bloor Street West
- Hodge, Rev. J., Tilbury, Ont.
- Hodgins, James, 319 Earlham Terrace, Germantown, Phil. ; 202 Jarvis Street
- Holgate, Thomas F., Evanston, Ill., U.S.A. ; 12 Grosvenor Street
- Hopkins, J. Castell, 510 Spadina Avenue
- Horst, W. P. von der, N. W. Provinces, India ; 299 Church Street
- Hoskin, John, Q.C., Toronto
- Howard, Mrs., 86 St. John's Road, Waterloo, Liverpool ; Wycliffe College
- Howarth, O. H., Gresham House, Old Broad Street, London ; Queen's Hotel
- Howe, Lucien, 183 Delaware Avenue, Buffalo, N.Y. ; Rossin House.
- Howland, Oliver A., M.P.P., Arlington Hotel
- Hoyle, Mrs. W. E., 25 Brunswick Road, Manchester ; Wycliffe College
- Hubbard, Ald. W. P., City Hall
- Huber, S. C., Ann Arbor, Mich.
- Huber, G. Carl, Ann Arbor, Mich. ; McMaster Hall
- Hughson, Wm. C., 65 Cartier Street, Ottawa ; 161 Darling Avenue
- Hull, Dr. G. F.
- Hunt, Dr., 379 Spadina Avenue

- Hunt, Mrs., 379 Spadina
 Hunter, A. Howard, Toronto
 Hunton, Prof. S. W., Education Office, Fredericton, New Brunswick
 Hunton, S. W., Sackville, N.B. ; McMaster Hall
 Idington, John, Stratford, Ont
 Irving, A. S., Toronto.
- Jaffray, Robert, 78 Grenville Street
 James, C. C., Toronto
 James, O. S., 192 Jarvis Street
 James, S. H., Toronto
 Jarvis, Mrs. F. W., 158 Jarvis Street
 Jeffery, Miss F., Richmond, P.Q. ; 598 Spadina Avenue
 Jennings, Bernard, 38 St. Vincent Street
 Johnson, A. J., M.D., Toronto
 Johnson, Mrs. J. B., St. Louis, Mo. ; Arlington
 Johnston, W. R., Toronto
 Jones, Clarkson, Barnstable, Toronto
 Jones, T. Harry, Brantford, Ont
 Jordan, Rev. Louis H., Jarvis Street
- Keating, Edward H.
 Kellogg, J. H., Sanitarium, Battle Creek, Michigan
 Kenny, J. J., Western Assurance Co.
 Kenny, Mrs. J. J.
 Kennedy, Richard Canon, Liverpool ; Rossin House
 Kenrick, Mrs. E. M., 209 John Street
 Kempson, Mrs. Augustus, "Kildare," 17 Arundel Road, Eastbourne,
 Sussex ; Queen's Hotel
 Keppel, Herbert G., Evanston, Ill. ; 12 Grosvenor Street
 Kerr, J. K.
 Keys, David R., 87 Avenue Road
 Kilgour, Robert
 King, W. L. M.
 King, R. O., 503 Markham Street
 Klotz, Otto J., 437 Albert Street, Ottawa ; 40 Sussex Avenue
 Kropotkin, Prince, Bromley, Kent ; Prof. Mavor, 8 University
 Place
- Lamb, Ald. Daniel, City Hall
 Langley, Ernest L., Dartmouth College, Hanover, N.H. ; 13 Farley
 Avenue
 Lauder, Mrs. M. E., 182 Carlton Street
 Lazarus, Rabbi A.
 Lee, W. R.
 Lee, Frederic S., Columbia University, New York ; McMaster Hall
 Leech, Miss, Oak Mount, Timperley, Cheshire

- Lefroy, B. St. G., 56 Lowther Avenue
 Lefroy, Ernest B., 56 Lowther Avenue
 Lefroy, F. A. H.
 Leslie, Ald. J. K., City Hall
 Lindsay, Thos., Toronto
 Lindsay, Rev. T. S., Malahide, Co. Dublin, Ireland ; 159 College Street
 Lombard, Warren P. Ann Arbor, Michigan ; 613 Spadina Avenue.
 Loudon, Mrs., 83 St. George Street
 Lowry, H. B., M.A., M.D., Ph. D., Lincoln, Nebraska, U.S.A. ; 60 St. Mary Street
 Lynd, Ald. Dr. Adam, Toronto
- MacInnes, Charles S., Freehold Chambers ; Beverley House
 MacAlister, Mrs. Donald, Barrmore, Cambridge, England ; Trinity College Lodge
 Macdonald, Mrs. Campbell, 127 St. George Street
 MacDonald, J. R., 3 Lincoln's Inn Fields, London, W.C. ; 294 Sherbourne Street
 Macdonald, J. Gordon, 345 Wellington Street
 MacLennan, Kenneth, Lucknow, Ontario ; 257 Wellesley Street.
 Mackenzie, Rev. M., Honan, China ; 257 Wellesley Street
 Macfarlane, Mrs. Alexander, Chatham, Ont. ; Grosvenor Hotel
 Macalister, Mrs. A., Torrisdale, Cambridge ; Clarkson Jones, Esq., 11 Elmslie Place
 Macalister, Mrs. D., Cambridge ; Mr. Provost Welch, Trinity College
 Macallum, Miss, 416 Central Avenue, London, Ont.
 MacCallum, W. G., Dunnville, Ont
 MacCallum, G. A., Dunnville, Ont
 Macallum, Mrs. A. B., 103 Bedford Road ; Wycliffe College
 Macallum, Dr. H. A., 415 Dundas Street London, Ont. ; Bedford Road
 Macallum, Mrs. H. A., 415 Dundas Street, London, Ont. ; Bedford Road
 MacDonald, James Ramsay, 3 Lincoln's Inn Fields, London
 Maclean, Mrs. John, Neepawa, Ont.
 Macmillan, Rev. Alexander, 226 Carlton Street
 McCabe, William, Toronto
 McCaughan, Rev. Wm. J., The Manse, Simcoe Street
 McClintock, Mrs. Emory, Morristown, New Jersey
 McColl, Daniel M., West Lorne, Ontario ; 84 D'Arcy Street
 McDougall, J. L., Auditor General's Office, Ottawa
 McIntosh, Douglas, Ithaca, New York ; 288 Huron Street
 McIver, Miss F. E., N.W. Provinces, India ; 299 Church Street
 McIver, Miss M., Kingston ; 290 Church Street
 McKay, Prof. A. C., McMaster University
 McKay, Donald, Toronto
 McLay, W. S., McMaster University

- Morris, Edmund, 598 Spadina Avenue
 Morton, John A., 15 Surrey Place
 Mowat, Sir Oliver, Toronto
 Moore, William H., University College
 Mullin, Robert, 85 Murray Street
 Munro, Mrs. Robt., Edinburgh, Scotland ; Queen's Hotel.
 Munro, W. F., 84 Lee Avenue
 Murkland, Charles S., Durham, New Hampshire ; The Arlington.
 Myres, Mrs., Oxford, England ; Wycliffe College
 Myers, Mrs. A. L., New Brunswick, New Jersey
- Nairn, John, 415 Jarvis Street
 Nason, Joseph, Weston, Ont. ; 48 Canada Life Building
 Neilson, A., Rossin House
 Nestrid, Mrs. Heattie, 71 Grosvenor Street
 Newcomb, Mrs., Washington ; Frewen House
 Newcomb, Mrs. M. H., Brookline, Washington, D.C.
 Newson, H. B., Lawrence, Kansas ; 12 Grosvenor Street
 Needler, G. H., Ph.D., University College
- Onslow, Miss A. M., Richmond, Quebec
 Onslow, Miss A. M., Dublin, Ireland ; 598 Spadina Avenue
 O'Reilly, C., M.D., General Hospital
 Oronhyatekha, Dr.
 Osborn, Mrs. H. F., New York
 Osborne, Mrs. J. Kerr, 40 St. Joseph Street
 Osler, Mrs. E. B., Rosedale
 Osler, Hon. F., 125 College Street
 Oxenham, Miss Mary Jane, 148 St. Patrick Street
- Page, D. L., M.D., Lowell, Mass., U.S.A. ; McMaster Hall
 Page, Mrs. N. K., Lowell, Mass., U.S.A. ; McMaster Hall
 Palmer, Mrs. J. J., 29 Queen's Park
 Parsons, Rev. H. M., D.D., 235 Jarvis Street
 Pattullo, Alexander, 262 College Street
 Peirce, C. N., Philadelphia, Pa., U.S.A. ; Queen's Hotel
 Peirce, Mrs. C. N., Philadelphia, Pa., U.S.A. ; Queen's Hotel
 Pelham, Arthur H. Thursby, Cound, Shrewsbury, England ; 159
 College Street
 Pelham, Rev. A. Thursby, Cound Rectory, Shrewsbury, England ;
 159 College Street
 Pennycuik, James Grey, 302 Wellington Street ; 58 Yonge Street
 Perkins, Mrs. G. H., University of Vermont, Burlington, Vt.
 Phillips, John, 125 Victor Avenue
 Pope, Fred G., School of Mining, Kingston, Ontario ; Bathurst
 Street
 Porter, William Townsend, Boston, Mass., U.S.A. ; McMaster Hall

- Poulton, Mrs. E. B., Wykeham House, Oxford ; Prof. Goldwin Smith, The Grange.
- Preston, Ald. W. T. R., Toronto.
- Prescott, Mrs. Albert B., Ann Arbor, Michigan ; Rossin House
- Putnam, Mrs. F. W., Cambridge, Mass., U.S.A. ; Frewen House, Queen's Park
- Putnam, Miss Ethel, Cambridge, Mass., U.S.A. ; Frewen House
- Pye-Smith, Winifred C., Willersley, Croydon, Eng. ; Queen's Hotel
- Pye-Smith, A. Stanley, Willersley, Croydon, England ; Queen's Hotel
- Pyne, A. R., 261 Gerrard Street East
- Ramsay, Mrs., 12 Arundel Gardens, London ; R. Russell-Baldwin, Esq., 36 Lowther Avenue
- Randall, Wyatt W., Ph.D., Baltimore, Maryland, U.S.A.
- Ravenstein, Mrs., 2 York Mansions, Battersea Park, London ; J. Herbert Mason, Esq., 477 Sherbourne Street
- Raymond, W. B., Park Road, Rosedale
- Reid, J. P., Toronto
- Remsen, Mrs., Baltimore ; Hon. G. W. Ross, 1 Elmslie Place
- Revell, Daniel G., Paris, Ont. ; Empress Hotel
- Roberts, Rev. J. L. P., 242 Spadina Avenue
- Roberts-Austen, Mrs., Royal Mint, London ; D. R. Wilkie, Esq., 432 Sherbourne Street
- Robertson, John Ross, M.P., Toronto
- Rogers, Thos. H., Knox College
- Rosa, Mrs. E. B., Middleton, Conn
- Rosebrough, Reeve, Toronto
- Roseburgh, Y. R., 107 Mutual Street ; School of Practical Science
- Ross, Alex. H. D., M.A., Tilsonburg, Ont. ; 201 Sherbourne Street
- Ross, Mrs. Edward B., Middletown, Conn. ; Queen's Hotel
- Rudolf, Robert Dawson, M.D., 40 Carlton Street
- Russell, Ald. John, City Hall
- Rutter, Alf. A. F., City Hill
- Ryan, Rev. Father, Toronto
- Sankey, Villiers, City Surveyor, City Hall
- Saunders, Ald. B., City Hall
- Saunders, Mrs. C. E., 32 St. Mary Street
- Saunders, F. A., Ottawa ; 32 St. Mary Street
- Saunders, Percy N., 30 Prince Arthur Avenue
- Scales, Mrs. J. W., Wellington Place
- Scidmore, Miss Eliza R., 236 Niagara Street, Buffalo, N.Y.
- Scidmore, Eliza R., Washington, D.C., U.S.A. ; 7 Queen's Park
- Scott, Fred. H., 576 Church Street
- Scott, Ald. James, Toronto
- Scott, Wm., 576 Church Street
- Scott, Mrs. G. W., Humbie House, Upper Keith, Scotland ; Queen's Hotel

- Scott, Hon. W. G., Humbie House, Upper Keith, Scotland ; Queen's Hotel
- Seath, John, B.A., 507 Huron Street
- Selous, Mrs., Wagrove, Buckinghamshire ; J. Kerr Osborne, Esq., Clover Hill, St. Joseph
- Serena, A., 8 Austin Friars, London, E.C.
- Shadwell, A., M.A., M.B., South Park, Ilford, Essex ; Hanlan's Hote
- Shaw, John, Mayor of Toronto
- Sheppard, Ald. O. B., City Hall
- Sherrington, Ethel L., 16 Grove Park, Liverpool, England ; Wycliffe College
- Sherman, W. H., Sydenham, London, England ; Albion Hotel,
- Sheraton, Rev. Principal, D.D., LL.D., Wycliffe College
- Shortt, Rev. Chas. H., 395 Huron Street
- Shrubbs, Arthur S., Cambridge, England ; 60 McGill Street
- Shutt, F. T., M.A., Experimental Farm, Ottawa
- Silcox, Rev. J. B., 957 Jackson Boulevard, Chicago, Ill., U.S.A. ; 12 South Drive
- Silcox, Sidney, Collingwood ; "Avonmore," Jarvis Street
- Sills, Mrs. G. F., 347 Sherbourne Street
- Simpson, W. B. Bridgeman, 256 Huron Street
- Simpson, H. C., Trinity College
- Sims, P. H., British American Assurance Co.
- Sinton, Walter L., Toronto
- Skaife, Francis W., Univ. of California, San Francisco, Cal.
- Sloane, Wm. M.D., Parkdale
- Smale, F. J., 36 Brunswick Avenue
- Smith, George B., 25 Elm Street
- Smith, Prof. Goldwin, The Grange
- Smith, Larriat W., 96 Summerhill Avenue
- Smith, Herbert E., Yale University, New Haven, Conn. ; McMaster Hall
- Smyth, Prof. T., 68 Dundas Street W., West Toronto Junction
- Somerville, A. J., Toronto
- Spanton, Miss, Hanley, Shaffordshire ; Rossin House
- Sparks, John, Royal College of Art, London ; C. Robinson, Esq., Beverley House, Richmond Street
- Spence, Ald. F. S., City Hall
- Spencer, Bertram, M.D., 8 Bloor Street
- Spencer, Miss J. W., Washington, D.C.
- Squire, Mrs. W. S., Clarendon House, St. John's Wood Park, London, N.W. ; Queen's Hotel
- Stallard, Mrs. Gordon M., Meulo Park, San Mateo Co., California ; Rossin House
- Stallard, J. H., M.B., Meulo Park, San Mateo Co., California ; Rossin House.
- Starr, Dr. L. G., 471 College Street
- Stewart, Andrew, Dundee, Scotland ; Walker House
- Stewart, S., Thamesville, Ont. ; 147 Dowling Avenue

- Stewart, Louis B., 652 Euclid Avenue ; School of Practical Science
Street, Miss J. A., 17 Spadina Road
- Stuart, Dr. A. J., Newmarket, Ont.; 42 Wellington Street
- Stuart, Prof. Anderson, M.D., Sydney, N.S.W., Australia ; Rossin
House
- Stiff, Miss, 46 Wentworth, Street S., Hamilton
- Stovel, Russell W., B.A., Sc., Science Building, McGill University,
Montreal ; 70 Brunswick, Avenue.
- Strahy, H. S., Toronto
- Swanston, Miss M., Belfast ; 18 St. Mary Street
- Swanzy, Miss K. G., 46 Wentworth Street S., Hamilton
- Sweetnam, Geo. B., 39 St. Vincent Street
- Sweny, Col., 160 St. George Street
- Sweny, Mrs., 160 St. George Street
- LeSueur, W. D., B.A., Ottawa, Ont.; 435 Manning Avenue
- Swanzy, Miss, Hamilton, Ont.; 159 College Street
- Symington, Dr. M. P., Napanee, Ont.; 257 Welsley Street
- Swinburne, Lady, Capheaton Hall, Newcastle-on-Tyne ; Queen's
Hotel
- Sykes, Fred. H., Philadelphia, Pa. ; 14 Augusta Avenue
- Symington, J. A., Napanee ; 257 Wellesley Street
- Thompson, Miss Anna T., Belvidere Avenue, Plainfield, N. Jersey,
U.S.; Berwick House, Jarvis Street
- Thomson, R. B., Prescott, Ont.; 7 Russell Street
- Thursby-Pelham, Rev. A., Cound Rectory, Shrewsbury
- Thurston, Mrs. R. H., Ithaca, N.Y.
- Tibbitts, Miss Mary Louisa, Liverpool, England ; 150 St. Patrick
Street
- Todhunter, James, 85 Wellesley Street
- Todhunter, Mrs. Jas., 85 Wellesley Street
- Towner, J. W., Kenwood, N.Y.
- Towner, J. W., Santa Ana, Cal.; Lucas House
- Tribe, Margaret E., 44 West Oneida Street, Oswego, N.Y.
- Trurin, Mrs., Truro ; 83 Wellesley Street
- Tucker, F. T., 28 St. Mary's Road, Canonbury, London, N. ;
Albion Hotel.
- Tully, Kivas, 16 Spadina Road.
- Turner, A. Logan, Edinburgh ; 208 Simcoe Street
- Tweedie, W. M., Sackville, N.B. ; McMaster Hall.
- Tyrrell, J. W., Hamilton, Ontario ; 182 Dovercourt Road.
- Tyrrell, Mrs., Ottawa, Ont.; Wycliffe College
- VanVleck, E. B., Middletoun, Conn., U.S.A.; Queen's Hotel
- Vogdes, Mrs. A. W., Arlington Hotel
- Waddell, Dr. John, Kingston, Ont. ; 497 Church Street
- Wade, H., Parliament Buildings

- Wager, Winifred, B.A., Bank View, Chapel Allerton, Leeds, England ; 391 College Street
- Wait, F. G., Ottawa, Ont. ; 599 Yonge Street
- Wallace, Mrs. Robertson, 82 Homewood Avenue
- Waller, Mrs. Augustus D., 16 Grove End Road, London, N. W. ; 50 St. George Street
- Walton, Miss Isabel, 144 James Street South, Hamilton, Ont. ; 80 Summerhill Avenue
- Wallace, Rev. Prof. F. H., Victoria University
- Wanless, John, 594 Huron Street.
- Wanklyn, Frederick L., 241 Drummond Street, Montreal ; Toronto Club
- Ward, Mrs. Hugel, 72 Carlton Street
- Warren, Howard C., Princeton, N.J., U.S.A. ; 95 Wellesley Street
- Warren, H. D., 95 Wellesley Street
- Warnock, Adam, Galt, Ont. ; A. Manning, 11 Queen's Park
- Watson, Albert D., 10 Euclid Avenue
- Weatherbe, J. H., 21 Langley Avenue
- Welch, E. A., Trinity College Lodge
- Wells, J. Walter, 392 Markham Street
- Whitney, Mary W., Brant Rock, Mass.
- White, James, Geological Survey, Ottawa ; 52 Isabella Street
- Whitney, Mrs. E. R., 20 North Street, Binghamton, N.Y. ; 41 Maitland Street
- Widdifield, J. H., Toronto
- Wilkie, C. S., 432 Sherbourne Street
- Wilkie, D. R., Toronto
- Wilkie, Miss Marion, 432 Sherbourne Street
- Williams, Mrs. W. C., Broomgrove Road, Sheffield ; Queen's Hotel
- Williams, Mrs., Toronto
- Willmott, James B., M.D., Toronto
- Williams, Miss Mary, 6 Sloane Gardens, London, England
- Willmott, A. B., 54 Howland Avenue
- Winnett, Mrs. Edith, 525 Sherbourne Street
- Winnett, Frederick, M.D., 525 Sherbourne Street
- Woods, Ald. F. H., Toronto
- Wood, S. G., 100 Pembroke Street
- Woolverton, S., London, Ont.
- Workman, Rev. Dr., 18 St. Mary Street
- Wright, C. H. C., 524 Bathurst Street ; School of Practical Science
- Wright, Adam H., 30 Gerrard Street
- Wylie, James, 99 Bedford Road
- Wylie, Mrs., 99 Bedford Road



BRITISH ASSOCIATION FOR THE ADVANCEMENT
OF SCIENCE.

Excursion to the Pacific Coast.

PARTY No. 1.

| PLACE. | DAY OF WEEK. | DATE. | TIME. | ROUTE. |
|------------------------|-----------------|---------|------------|-----------|
| Leave Toronto | Thursday | Aug. 26 | 12.55 p.m. | All Rail. |
| Arrive Winnipeg | Saturday | " 28 | 15.35 | " |
| Leave Winnipeg | Sunday | " 29 | 17.10 | " |
| Arrive Banff | Tuesday | " 31 | 6.07 | " |
| Leave Banff | Wednesday | Sept. 1 | 6.07 | " |
| Arrive Glacier | Wednesday | " 1 | 14.10 | " |
| Leave Glacier | Thursday | " 2 | 14.10 | " |
| Arrive Vancouver | Friday | " 3 | 13.00 | " |

PARTY No. 2.

| PLACE. | DAY OF WEEK. | DATE. | TIME. | ROUTE. |
|------------------------|-----------------|---------|------------|------------|
| Leave Toronto | Thursday | Aug. 26 | 10.50 a.m. | Lake Route |
| Arrive Winnipeg | Sunday | " 29 | 15.35 | " |
| Leave Winnipeg | Monday | " 30 | 17.10 | " |
| Arrive Banff | Wednesday | Sept. 1 | 6.07 | " |
| Leave Banff | Thursday | " 2 | 6.07 | " |
| Arrive Glacier | Thursday | " 2 | 14.10 | " |
| Leave Glacier | Friday | " 3 | 14.10 | " |
| Arrive Vancouver | Saturday | " 4 | 13.00 | " |

PARTY No. 3.

| PLACE. | DAY OF WEEK. | DATE. | TIME. | ROUTE. |
|--------------------------|----------------|---------|------------|-----------|
| Leave Toronto | Friday | Aug. 27 | 12.55 p.m. | All Rail. |
| Arrive Sudbury | Saturday | " 28 | 12.45 a.m. | " |
| Leave Sudbury | Sunday | " 29 | 12.45 | " |
| Arrive Rat Portage | Monday | " 30 | 10.13 | " |
| Leave Rat Portage | Tuesday | " 31 | 10.13 | " |
| Arrive Winnipeg | Tuesday | " 31 | 15.35 | " |
| Leave Winnipeg | Tuesday | " 31 | 17.10 | " |
| Arrive Banff | Thursday | Sept. 2 | 6.07 | " |
| Leave Banff | Friday | " 3 | 6.07 | " |
| Arrive Glacier | Friday | " 3 | 14.10 | " |
| Leave Glacier | Saturday | " 4 | 14.10 | " |
| Arrive Vancouver | Sunday | " 5 | 13.00 | " |

PARTY No. 4

| Route | Time | Date | Day of Week | Place |
|----------|------------|---------|-------------|------------------|
| All Rail | 12:55 p.m. | Aug. 30 | Monday | Leave Toronto |
| " | 12:35 | Sept. 1 | Wednesday | Arrive Winnipeg |
| " | 12:10 | " 2 | Thursday | Leave Winnipeg |
| " | 6:05 | " 4 | Saturday | Arrive Banff |
| " | 6:05 | " 5 | Sunday | Leave Banff |
| " | 14:10 | " 6 | Sunday | Arrive Glacier |
| " | 14:10 | " 7 | Monday | Leave Glacier |
| " | 13:00 | " 7 | Tuesday | Arrive Vancouver |

Arrangements for the return journey will be completed at Vancouver. Members should give notice to the Agent of the Canadian Pacific Railway at that point, at least three days in advance of the date on which they desire to begin the return journey.

The Sleeping Car rate from Toronto to Vancouver is \$18.50; from Ottawa to Vancouver, \$20.00; from Fort William to Vancouver, for the party taking the Lake Route, \$15.00. The rates quoted are for double lower or double upper berths. Members, both by Rail and Lake Routes, will be required to pay for meals and berths.

Send to Selwyn

BRITISH ASSOCIATION FOR THE ADVANCEMENT
OF SCIENCE

Excursion to the Pacific Coast.

PARTY No. 1.

| Place | Day of Week | Date | Time | Route |
|------------------|-------------|---------|----------|----------|
| Leave Toronto | Thursday | Aug. 30 | 12:55 pm | All Rail |
| Arrive Winnipeg | Saturday | " 28 | 12:55 | " |
| Leave Winnipeg | Sunday | " 29 | 12:10 | " |
| Arrive Banff | Tuesday | " 31 | 6:07 | " |
| Leave Banff | Wednesday | Sept. 1 | 6:07 | " |
| Arrive Glacier | Wednesday | " 1 | 14:10 | " |
| Leave Glacier | Thursday | " 2 | 14:10 | " |
| Arrive Vancouver | Friday | " 3 | 13:00 | " |

PARTY No. 2.

| Place | Day of Week | Date | Time | Route |
|------------------|-------------|---------|----------|------------|
| Leave Toronto | Thursday | Aug. 30 | 10:50 am | Lake Route |
| Arrive Winnipeg | Sunday | " 30 | 12:55 | " |
| Leave Winnipeg | Monday | " 30 | 12:10 | " |
| Arrive Banff | Wednesday | Sept. 1 | 6:07 | " |
| Leave Banff | Thursday | " 2 | 6:07 | " |
| Arrive Glacier | Thursday | " 2 | 14:10 | " |
| Leave Glacier | Friday | " 3 | 14:10 | " |
| Arrive Vancouver | Saturday | " 4 | 13:00 | " |

PARTY No. 3.

| Place | Day of Week | Date | Time | Route |
|--------------------|-------------|---------|----------|----------|
| Leave Toronto | Friday | Aug. 27 | 12:55 pm | All Rail |
| Arrive Sudbury | Saturday | " 28 | 12:45 am | " |
| Leave Sudbury | Sunday | " 29 | 12:45 | " |
| Arrive Rat Portage | Monday | " 30 | 10:15 | " |
| Leave Rat Portage | Tuesday | " 31 | 10:15 | " |
| Arrive Winnipeg | Tuesday | " 31 | 12:35 | " |
| Leave Winnipeg | Tuesday | " 31 | 12:10 | " |
| Arrive Banff | Thursday | Sept. 2 | 6:07 | " |
| Leave Banff | Friday | " 3 | 6:07 | " |
| Arrive Glacier | Friday | " 3 | 14:10 | " |
| Leave Glacier | Saturday | " 4 | 14:10 | " |
| Arrive Vancouver | Sunday | " 5 | 13:00 | " |

PARTY No. 4.

| PLACE. | DAY OF WEEK. | DATE. | TIME. | ROUTE. |
|------------------------|-----------------|---------|------------|-----------|
| Leave Toronto | Monday | Aug. 30 | 12.55 p.m. | All Rail. |
| Arrive Winnipeg..... | Wednesday | Sept. 1 | 15.35 | " |
| Leave Winnipeg..... | Thursday | " 2 | 17.10 | " |
| Arrive Banff..... | Saturday | " 4 | 6.07 | " |
| Leave Banff..... | Sunday | " 5 | 6.07 | " |
| Arrive Glacier | Sunday | " 5 | 14.10 | " |
| Leave Glacier | Monday | " 6 | 14.10 | " |
| Arrive Vancouver | Tuesday | " 7 | 13.00 | " |

Arrangements for the return journey will be completed at Vancouver. Members should give notice to the Agent of the Canadian Pacific Railway at that point, at least three days in advance of the date on which they desire to begin the return journey.

The Sleeping Car rate from Toronto to Vancouver is \$18.50; from Ottawa to Vancouver, \$20.00; from Fort William to Vancouver, for the party taking the Lake Route, \$15.00. The rates quoted are for double lower or double upper berths. Members, both by Rail and Lake Routes, will be required to pay for meals and berths.

James T. ...

TORONTO MEETING.

BRITISH ASSOCIATION

FOR THE

Advancement of Science

LONDON OFFICE—BURLINGTON HOUSE, PICCADILLY, W.
(THE OFFICE WILL BE CLOSED FROM JULY 28 UNTIL SEPT. 20.)

(LOCAL OFFICE—UNIVERSITY OF TORONTO.)

The Sixty-seventh Annual Meeting of this Association will commence
on Wednesday, Aug. 18, 1897.

President.

THE RIGHT HON. THE LORD LISTER, D.C.L., PRES. R.S.

President-Elect.

SIR JOHN EVANS, K.C.B., D.C.L., LL.D., Sc.D., F.S.A., FOR. SEC. G.S.,
TREAS. R.S.

Vice-Presidents.

HIS EXCELLENCY THE RIGHT HON. THE EARL OF ABERDEEN,
Governor-General of the Dominion of Canada.

THE RIGHT HON. THE LORD RAYLEIGH, M.A., D.C.L., F.R.S., F.R.A.S.

THE RIGHT HON. THE LORD KELVIN, M.A., D.C.L., F.R.S., F.R.S.E.

THE RIGHT HON. THE LORD GLENCOE, G.C.M.G., LL.D., High Com-
missioner for Canada.

THE RIGHT HON. SIR WILFRID LAURIER, LL.D., Prime Minister of the
Dominion of Canada.

HIS HONOUR THE LIEUT. GOVERNOR OF THE PROVINCE OF
ONTARIO.

THE HON. THE PREMIER OF THE PROVINCE OF ONTARIO.

THE HON. THE MINISTER OF EDUCATION FOR THE PROVINCE
OF ONTARIO.

THE HON. SIR CHARLES TUPPER, BART., G.C.M.G.

SIR WILLIAM DAWSON, C.M.G., F.R.S.

PROFESSOR J. LOUDON, M.A., LL.D., President of the University of Toronto.

General Treasurer.

PROFESSOR ARTHUR W. RÜCKER, M.A., D.Sc., SEC. R.S.
Burlington House, London, W.

General Secretaries.

A. G. VERNON HARCOURT, Esq., M.A., D.C.L., LL.D., F.R.S., F.C.S.

PROFESSOR E. A. SCHÄFER, LL.D., F.R.S.

*In the absence of PROFESSOR SCHÄFER, the duties of General Secretary will be
undertaken by*

PROFESSOR W. C. ROBERTS-AUSTEN, C.B., F.R.S., V.-P.C.S.

Assistant General Secretary.

G. GRIFFITH, Esq., M.A., *College Road, Harrow.*

Local Secretaries for the Meeting at Toronto.

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B. E. WALKER, Esq., F.G.S.

J. S. WILLISON, Esq.

Local Treasurers for the Meeting at Toronto.

JAMES BAIN, JR., Esq.

PROFESSOR R. RAMSAY WRIGHT, M.A., B.Sc.

Local Executive Committee.

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| Treasurer | - | - | - | JAMES BAIN, JR., ESQ. |
| Secretary | - | - | - | A. H. U. COLQUHOUN, ESQ., M.A. |

Chairmen of Special Local Committees.

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| Conveyance | - | - | - | BARLOW CUMBERLAND, ESQ., M.A. |
| Publication and Printing | - | - | - | PROF. R. RAMSAY WRIGHT, M.A., B.Sc. |
| For Securing Co-operation of Scientific and Literary Institutes | } | - | - | ARTHUR HARVEY, ESQ., F.R.S.C. |
| Postal, Telegraph and Telephone | | | | |
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| Hospitality | - | - | - | { E. B. OSLER, ESQ., M.P. COL. G. A. SWENY, Vice-Chairman. |

GENERAL OBJECTS OF THE ASSOCIATION.

The objects of the British Association are: To give a stronger impulse and a more systematic direction to scientific inquiry; to promote the intercourse of those who cultivate Science in different parts of the British Empire, with one another, and with foreign philosophers; to obtain a more general attention to the objects of Science, and a removal of any disadvantages of a public kind which impede its progress.

THE TORONTO MEETING.

The meeting of the British Association for 1897 takes place this year in Toronto, opens on August 18th and closes on August 25th. This will be the second meeting held outside the British Isles, the first having taken place in Montreal, in 1884. The meetings of the various Sections of the Association will be held in the Lecture Room and Laboratories of the University of Toronto and of the School of Practical Science. The President's Address and the Evening Lectures will be delivered in Massey Hall.

MEMBERSHIP.

Only those who are Members can attend the meetings of the Association. There are three classes of Membership in the Association: (a) Life; (b) Annual; (c) Associate. The fee for Life Membership is £10 (\$50.00); that for the first year of Annual Membership, £2 (\$10.00), and subsequently £1 (\$5.00); Associates pay, on admission, £1 (\$5.00).

Associates are not eligible to serve on Committees or to hold office in the Association, nor do they receive the reports of the Association, except on payment of an additional sum.

Local Executive Committee.

| | | | | |
|-----------|---|---|---|-----------------------------------|
| President | - | - | - | PROF. A. B. MACALLUM, M.B., PH.D. |
| Treasurer | - | - | - | JAMES BAIN, JR., ESQ. |
| Secretary | - | - | - | A. H. U. COLQUHOUN, ESQ., M.A. |

Chairmen of Special Local Committees.

| | | | | |
|---|---|---|---|---|
| Finance | - | - | - | B. E. WALKER, ESQ., F.G.S. |
| Conveyance | - | - | - | BARLOW CUMBERLAND, ESQ., M.A. |
| Publication and Printing | - | - | - | PROF. R. RAMSAY WRIGHT, M.A., B.Sc. |
| For Securing Co-operation of Scientific and Literary Institutes | } | - | - | ARTHUR HARVEY, ESQ., F.R.S.C. |
| Postal, Telegraph and Telephone | | | | H. P. DWIGHT, ESQ. |
| Rooms | - | - | - | PRESIDENT JAMES LOUDON, M.A., LL.D. |
| Hotels and Lodgings | - | - | - | { T. MCGAW, ESQ. S. McALLISTER, ESQ., Vice-Chairman. |
| Press | - | - | - | A. H. U. COLQUHOUN, ESQ., M.A. |
| Hospitality | - | - | - | { E. B. OSLER, ESQ., M.P. COL. G. A. SWENY, Vice-Chairman. |

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The meeting of the British Association for 1897 takes place this year in Toronto, opens on August 18th and closes on August 25th. This will be the second meeting held outside the British Isles, the first having taken place in Montreal, in 1884. The meetings of the various Sections of the Association will be held in the Lecture Room and Laboratories of the University of Toronto and of the School of Practical Science. The President's Address and the Evening Lectures will be delivered in Massey Hall.

MEMBERSHIP.

Only those who are Members can attend the meetings of the Association. There are three classes of Membership in the Association: (a) Life; (b) Annual; (c) Associate. The fee for Life Membership is £10 (\$50.00); that for the first year of Annual Membership, £2 (\$10.00), and subsequently £1 (\$5.00); Associates pay, on admission, £1 (\$5.00).

Associates are not eligible to serve on Committees or to hold office in the Association, nor do they receive the reports of the Association, except on payment of an additional sum.

Arrangements for Canadian Members.

Canadian members of the Association will purchase tickets at first-class rate to Toronto, obtaining the railway standard certificate from the ticket office at which they make their purchase. Upon attending the meetings at Toronto, and presenting these certificates at the local office of the Association, they will be given certificates entitling them to return *free* by the same route by which they came to Toronto.

Canadian members may also join the Special Excursions which will be arranged to take place either during or immediately after the meeting of the Association.

Arrangements for United States Members.

United States members will purchase single tickets at single first-class rate to Toronto, obtaining the railway standard certificate from the ticket office at which they make their purchase. Upon attending the meetings in Toronto, and presenting these certificates, they will be given certificates entitling them to return, on payment of *one-third* ($1/3$) fare, the same route by which they came to Toronto.

Special Excursions.

Special Excursions will be arranged for the members at exceptionally low rates.

SATURDAY, 21ST AUGUST, RETURNING MONDAY MORNING, 23RD AUGUST.

- (a) Niagara River, Niagara Falls and return.
- (b) To Muskoka and return.
- (c) Penetanguishene and return.
- (d) Hamilton, Niagara Falls and return.

THURSDAY, 26TH AUGUST, RETURNING UP TO 1ST SEPTEMBER

- (e) Toronto, Ottawa, Ottawa River, Montreal and return.
- (f) Toronto, Kingston, St. Lawrence River, Montreal and return.
- (g) Toronto, Parry Sound, Algonquin Park, Ottawa, Montreal and return.

Arrangements are being made by the local authorities at each place for receptions, etc.

HOTELS AND LODGINGS.

A List of Toronto Hotels is forwarded with this. When the List of Lodgings is completed, copies will be forwarded to those applying for them.

COMMITTEE OF RECOMMENDATIONS.

The General Committee of the British Association appoints at each Annual Meeting a Committee to receive the Recommendations of the Sectional Committees, and to report to the General Committee the measures which they would advise to be adopted for the Advancement of Science. This Committee will meet at 3 p.m. on Friday, August 20; at 3.15 p.m. on Tuesday, August 24; and (if necessary) on August 25, at 10 a.m.

GENERAL AND EVENING MEETINGS.

The First General Meeting will be held in Massey Hall on Wednesday, August 18, at 8 p.m. *precisely*, when Sir JOHN EVANS, K.C.B., D.C.L., LL.D., Treas. R.S., President-Elect, will assume the Presidency, in succession to the Right Hon. LORD LISTER, D.C.L., LL.D., Pres. R.S., and deliver an Address; on Thursday Evening, August 19, at 8.30 p.m., there will be a Reception by His Excellency the Governor-General and the Countess of Aberdeen, in the Legislative Buildings; on Friday Evening, August 20, at 8.30 p.m., a Discourse on Canada's Metals will be delivered by Professor ROBERTS-AUSTEN, C.B., F.R.S., in Massey Hall; on Monday Evening, August 23, at 8.30 p.m., a Discourse on Earthquakes and Volcanoes will be delivered in Massey Hall by Professor JOHN MILNE, F.R.S.; on Tuesday Evening, August 24, at 8.30 p.m., there will be a Soirée; on Wednesday, August 25, the Concluding General Meeting will be held at 2.30 p.m.

SECTIONAL MEETINGS.

The Sections and the Places of Meeting are: (A) Mathematical and Physical Science, Lecture Room, Physical Laboratory; (B) Chemistry, Chemical Laboratory; (C) Geology, University Y.M.C.A. Building; (D) Zoology, Biological Department; (E) Geography, University Library; (F) Economic Science and Statistics, Students' Union; (G) Mechanical Science, School of Practical Science; (H) Anthropology, West University Hall; (I) Physiology, Biological Department; (K) Botany, Biological Department.

The Presidents, Vice-Presidents and Secretaries of the several Sections are nominated by the Council, and are submitted to the General Committee for election at its first meeting.

From the time of their nomination they constitute Organising Committees, for the purpose of obtaining information upon the Papers and Reports likely to be submitted to the Sections, and of preparing Reports thereon, and on the order in which it is desirable that they should be read, to be presented to the Committees of the Sections at their first meeting. The Sectional Presidents of former years are *ex-officio* members of the Organising Committees.

The Organising Committees may hold such preliminary meetings as the Presidents of the several Sections think expedient; but shall, under any circumstances, meet on the first Wednesday of the Annual Meeting at 11 a.m., to settle the terms of their Reports, after which their functions cease.

The different Sections will assemble in the rooms appointed for them, for the Reading and Discussion of Reports and other Communications, on Thursday, August 19; Friday, August 20; Saturday, August 21; Monday, August 23; and Tuesday, August 24, at times fixed by the Organising Committees.

The acceptance of Papers, and the days on which they are to be read, are determined, as far as possible, by the Organising Committees of the several Sections *before the beginning of the Meeting*. It is therefore necessary,

in order to give an opportunity to the Committees of doing justice to the several Communications, that each Author should prepare an Abstract of his Paper, of a length suitable for insertion in the Annual Report of the Association, and the Council request that he will send it, together with the original Paper, by book-post, on or before July 1, addressed thus: 'General Secretaries, British Association, Burlington House, London W. For Section.....' Authors who comply with this request, and whose Papers are accepted, will be furnished *before* the Meeting with printed copies of their Abstracts. If it should be inconvenient to the Author that his Paper should be read on any particular days, he is requested to send information thereof in a separate note. Abstracts sent in after July 1, but before the end of the Meeting, will appear in the Report, but cannot be printed beforehand. Reports on the Progress of Science, and of Researches intrusted to Individuals or Committees, must be forwarded to the General Secretaries, for presentation to the Organising Committees, accompanied by a statement whether the Author will be present at the Annual Meeting.

No Report, Paper or Abstract can be inserted in the Report of the Association unless it is in the hands of the Assistant General Secretary before the conclusion of the Meeting.

A room will be provided for the reception of Apparatus and Specimens illustrative of papers communicated to the Sections.

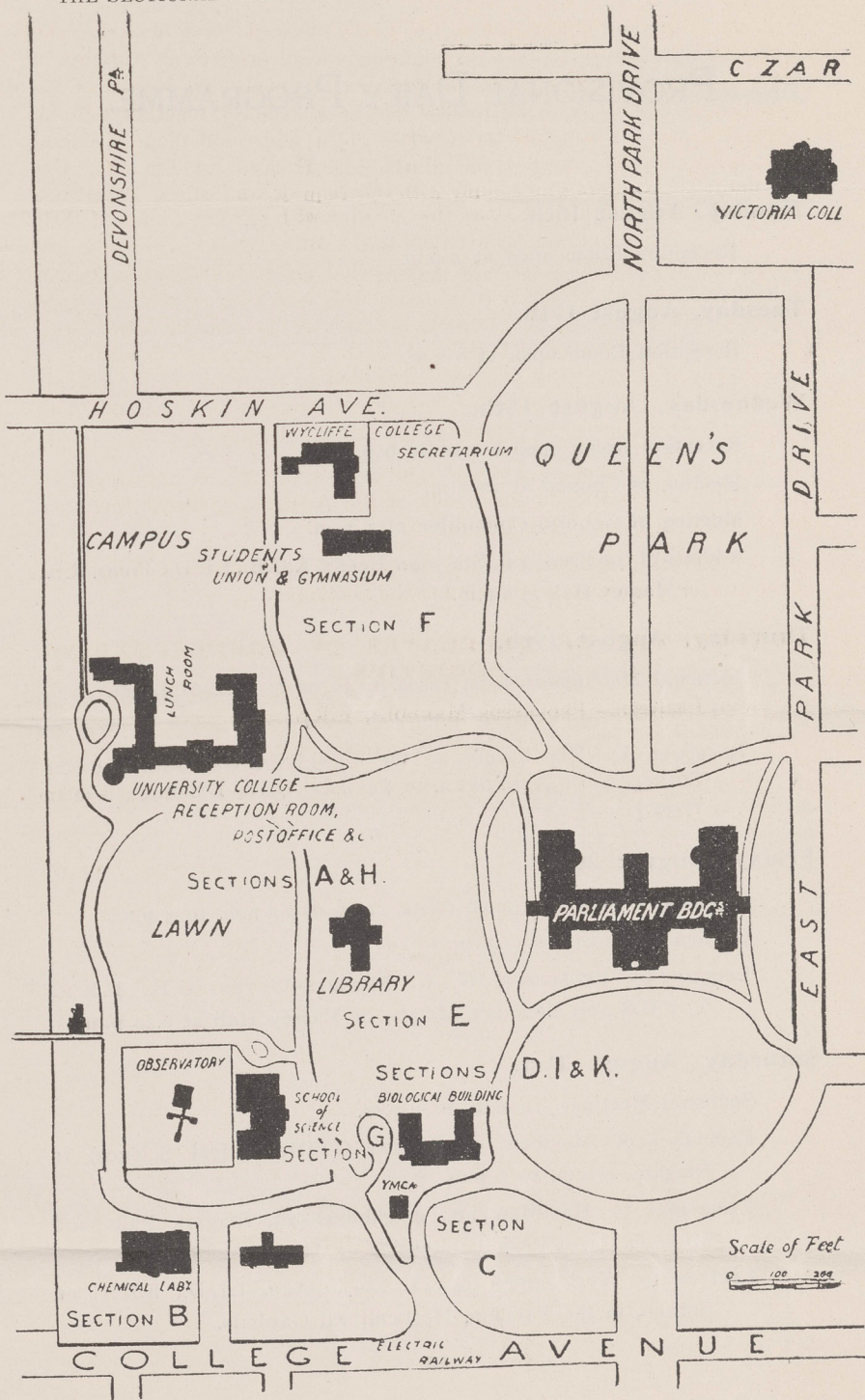
CONFERENCE OF DELEGATES OF CORRESPONDING SOCIETIES.

Chairman—PROFESSOR MELDOLA, F.R.S.

Secretary—JOHN HOPKINSON, F.L.S., F.G.S.

The Delegates will meet on Thursday, August 19, and Monday, August 23, at 3.30 p.m.

PLAN SHOWING BUILDINGS OF THE UNIVERSITY OF TORONTO AS ALLOTTED FOR THE SECTIONAL MEETINGS AND OFFICES OF THE BRITISH ASSOCIATION.



PROVISIONAL DAILY PROGRAMME.

Monday, August 16th.

Reception Room open at 2 p.m.

Tuesday, August 17th.

Reception Room open at 8 a.m.

Wednesday, August 18th.

Reception Room open 8 a.m. to 6 p.m.

Meeting of Council at 10 a.m.

Meeting of General Committee at 1 p.m.

Address of the President, SIR JOHN EVANS, K.C.B., LL.D., Treas. R.S.,
in Massey Hall at 8 p.m.

Thursday, August 19th.

Sectional Meetings in most cases, 10.30 or 11 a.m. to 3 p.m.

Garden Party 4.30 to 6.30 p.m.

Reception by His Excellency the GOVERNOR-GENERAL and the
COUNTESS OF ABERDEEN, in the Legislative Buildings, 8.30 to
11.30 p.m.

Friday, August 20th.

Sectional Meetings in most cases, 10.30 or 11 a.m. to 3 p.m.

Garden Party 4 to 6.30 p.m.

Lecture by PROFESSOR W. C. ROBERTS-AUSTEN, C.B., F.R.S.,
V.-P.C.S., on Canada's Metals, in Massey Hall at 8.30 p.m.

Saturday, August 21st.

Sectional Meetings, 10 a.m. to 1 p.m.

Excursion of Members of Section G (Mechanical Science) to
Niagara, 9 a.m. to 6 p.m.

Excursions to Hamilton and neighbourhood, Niagara Falls and
Muskoka Lake Region, returning on Monday morning.

Lecture to Workingmen by H. O. FORBES, LL.D., F.Z.S., on
Borneo, in the Pavilion, Horticultural Gardens.

Monday, August 23rd.

Sectional Meetings in most cases, 10.30 or 11 a.m. to 3 p.m.

Excursion of Members of Section C (Geology) to Scarboro' Heights,
1 to 6 p.m.

Garden Parties 4 to 6.30 p.m.

Lecture by PROFESSOR J. MILNE, F.R.S., on Earthquakes and
Volcanoes, in Massey Hall, at 8.30 p.m.

Tuesday, August 24th.

Sectional Meetings in most cases, 10.30 or 11 a.m. to 3 p.m.

Garden Party, 4 to 6.30 p.m.

Garden Party at Trinity College, 4 to 6.30 p.m.

Conversazione in the University Building, 8.30 to 11.30 p.m.

Wednesday, August 25th.

Some Sectional Meetings, 10 a.m. to 1 p.m.

Concluding General Meeting, 2.30 p.m.

Garden Parties, 4 to 6.30 p.m.

Banquet in honor of Lord Kelvin, Lord Lister and Sir John Evans,
8 p.m.

Thursday, August 26th.

Excursions to Niagara Peninsula, Kingston, Thousand Islands,
Ottawa, Montreal, Upper Lakes, Manitoba and British Columbia.
(See Excursion Guide.)

NOTE.—The precise times for the Sectional Meetings will be announced
in the Daily Journal issued during the Meeting in the Reception Room.

OFFICERS OF SECTIONS.

A.—MATHEMATICAL AND PHYSICAL SCIENCE.

President.—PROF. A. R. FORSYTH, M.A., D.Sc., F.R.S.
Vice-Presidents.—R. T. GLAZEBROOK, M.A., F.R.S.; Prof. A. JOHNSON, M.A., LL.D.;
Prof. O. J. LODGE, D.Sc., F.R.S.
Secretaries.—J. C. GLASHAN; PROF. W. H. HEATON, M.A. (*Recorder*); J. L. HOWARD, D.Sc.;
Prof. J. G. MCGREGOR, D.Sc., F.R.S.E.

B.—CHEMISTRY.

President.—PROF. W. RAMSAY, Ph.D., F.R.S.
Vice-Presidents.—Prof. H. B. DIXON, M.A., F.R.S.; W. R. DUNSTAN, M.A., F.R.S.;
Prof. B. J. HARRINGTON, Ph.D.; Prof. W. H. PIKE, M.A., Ph.D.; Prof. W. C. ROBERTS-AUSTEN,
C.B., F.R.S.; T. E. THORPE, Ph.D., F.R.S.
Secretaries.—Prof. W. H. ELLIS, M.A., M.B.; ARTHUR HARDEN, Ph.D., M.Sc. (*Recorder*);
C. A. KOHN, Ph.D.; Prof. R. F. RUTTAN.

C.—GEOLOGY.

President.—DR. G. M. DAWSON, C.M.G., F.R.S., F.G.S.
Vice-Presidents.—Prof. C. LeNEVE FOSTER, D.Sc., F.R.S., F.G.S.; Dr. H. WOODWARD, F.R.S.,
F.G.S.
Secretaries.—Prof. A. P. COLEMAN, Ph.D.; G. W. LAMPLUGH, F.G.S.;
Prof. H. A. MIERS, F.R.S., F.G.S. (*Recorder*).

D.—ZOOLOGY.

President.—PROF. L. C. MIALL, F.R.S., F.L.S.
Vice-Presidents.—Prof. W. A. HERDMAN, F.R.S.; Prof. R. MELDOLA, F.R.S.; Prof. E. B. POULTON,
F.R.S.; Prof. R. RAMSAY WRIGHT, M.A., B.Sc.
Secretaries.—W. GARSTANG, M.A.; W. E. HOYLE, M.A. (*Recorder*); Prof. E. E. PRINCE, B.A.

E.—GEOGRAPHY.

President.—J. SCOTT KELTIE, LL.D., Sec. R.G.S.
Vice-Presidents.—President N. BURWASH, LL.D.; Major L. DARWIN, Hon. Sec. R.G.S.;
E. G. RAVENSTEIN, F.R.G.S.
Secretaries.—Col. F. BAILEY, Sec. R.S.G.S.; Capt. E. DEVILLE; H. R. MILL, D.Sc., F.R.G.S.
(*Recorder*); J. B. TYRRELL, M.A.

F.—ECONOMIC SCIENCE AND STATISTICS.

President.—PROF. E. C. K. GONNER, M.A., F.S.S.
Vice-Presidents.—Prof. W. CLARK, M.A., LL.D.; Rt. Hon. L. H. COURTNEY, M.P.; The Hon. Sir
C. W. FREEMANTLE, K.C.B.; Prof. J. MAVOR.
Secretaries.—E. CANNAN, M.A., F.S.S.; H. HIGGS, LL.B., F.S.S. (*Recorder*); Prof. ADAM SHORTT, M.A.

G.—MECHANICAL SCIENCE.

President.—G. F. DEACON, M.Inst.C.E.
Vice-Presidents.—Prof. W. E. AYRTON, F.R.S.; Prof. H. T. BOVEY, M.A.;
Sir C. DOUGLAS FOX, M.Inst.C.E.; Prof. JOHN GALBRAITH, M.A.
Secretaries.—Prof. T. HUDSON BEARE, F.R.S.E. (*Recorder*); Prof. H. L. CALLENDAR, M.A., F.R.S.;
Prof. DUPUIS, M.A.; W. A. PRICE.

H.—ANTHROPOLOGY.

President.—PROF. SIR W. TURNER, M.B., LL.D., F.R.S.
Vice-Presidents.—E. W. BRABROOK, Pres. Anth. Inst.; R. MUNRO, M.A., F.R.S.E.
Secretaries.—A. F. CHAMBERLAIN, Ph.D.; H. O. FORBES, LL.D.; Prof. A. C. HADDON, M.A., D.Sc.;
J. L. MYRES, M.A., F.S.A. (*Recorder*).

I.—PHYSIOLOGY.

President.—PROF. MICHAEL FOSTER, M.A., LL.D., Sec. R.S.
Vice-Presidents.—W. H. GASKELL, M.D., F.R.S.; Prof. A. B. MACALLUM, M.B., Ph.D.;
Prof. A. D. WALLER, M.D., F.R.S.
Secretaries.—Prof. RUBERT BOYCE, M.B. (*Recorder*); A. KIRSCHMANN, Ph.D.;
Prof. C. S. SHERRINGTON, M.D., F.R.S.; Dr. L. E. SHORE.

K.—BOTANY.

President.—PROF. H. MARSHALL WARD, D.Sc., F.R.S., F.L.S.
Vice-Presidents.—Prof. F. O. BOWER, D.Sc., F.R.S.; Prof. D. P. PENHALLOW.
Secretaries.—Prof. J. B. FARMER, M.A., F.L.S.; E. C. JEFFREY, M.A.; A. C. SEWARD, M.A., F.G.S.;
Prof. F. E. WEISS, B.Sc., F.L.S. (*Recorder*).

*This List of Sectional Officers will be completed, and will be submitted to the General Committee, on
Wednesday, August 18.*

BRITISH ASSOCIATION FOR THE ADVANCEMENT

OF SCIENCE

Excursion to the Pacific Coast.

PARTY No. 1.

| Place | Day of Week | Date | Time | Route |
|------------------|-------------|---------|------------|------------|
| Leave Toronto | Thursday | Aug. 26 | 10:50 a.m. | Lake Route |
| Arrive Winnipeg | Sunday | " 29 | 12:35 | " |
| Leave Winnipeg | Monday | " 30 | 12:10 | " |
| Arrive Banff | Wednesday | Sept. 1 | 0:07 | " |
| Leave Banff | Thursday | " 2 | 0:07 | " |
| Arrive Glacier | Thursday | " 3 | 14:10 | " |
| Leave Glacier | Friday | " 3 | 14:10 | " |
| Arrive Vancouver | Saturday | " 4 | 12:00 | " |

PARTY No. 2.

| Place | Day of Week | Date | Time | Route |
|--------------------|-------------|---------|------------|----------|
| Leave Toronto | Friday | Aug. 27 | 12:55 p.m. | All Rail |
| Arrive Sudbury | Saturday | " 28 | 12:45 a.m. | " |
| Leave Sudbury | Sunday | " 29 | 12:45 | " |
| Arrive Rat Portage | Monday | " 30 | 10:13 | " |
| Leave Rat Portage | Tuesday | " 31 | 10:13 | " |
| Arrive Winnipeg | Tuesday | " 31 | 12:35 | " |
| Leave Winnipeg | Tuesday | " 31 | 12:10 | " |
| Arrive Banff | Thursday | Sept. 2 | 0:07 | " |
| Leave Banff | Friday | " 3 | 0:07 | " |
| Arrive Glacier | Friday | " 3 | 14:10 | " |
| Leave Glacier | Saturday | " 4 | 14:10 | " |
| Arrive Vancouver | Sunday | " 5 | 12:00 | " |

BRITISH ASSOCIATION FOR THE ADVANCEMENT
OF SCIENCE.

Excursion to the Pacific Coast.

PARTY No. 1.

| PLACE. | DAY OF WEEK. | DATE. | TIME. | ROUTE. |
|------------------------|-----------------|---------|------------|-----------|
| Leave Toronto | Thursday | Aug. 26 | 12.55 p.m. | All Rail. |
| Arrive Winnipeg..... | Saturday | " 28 | 15.35 | " |
| Leave Winnipeg..... | Sunday | " 29 | 17.10 | " |
| Arrive Banff..... | Tuesday | " 31 | 6.07 | " |
| Leave Banff..... | Wednesday | Sept. 1 | 6.07 | " |
| Arrive Glacier | Wednesday | " 1 | 14.10 | " |
| Leave Glacier | Thursday | " 2 | 14.10 | " |
| Arrive Vancouver | Friday | " 3 | 13.00 | " |

PARTY No. 2.

| PLACE. | DAY OF WEEK. | DATE. | TIME. | ROUTE. |
|------------------------|-----------------|---------|------------|------------|
| Leave Toronto | Thursday | Aug. 26 | 10.50 a.m. | Lake Route |
| Arrive Winnipeg..... | Sunday | " 29 | 15.35 | " |
| Leave Winnipeg..... | Monday | " 30 | 17.10 | " |
| Arrive Banff..... | Wednesday | Sept. 1 | 6.07 | " |
| Leave Banff..... | Thursday | " 2 | 6.07 | " |
| Arrive Glacier | Thursday | " 2 | 14.10 | " |
| Leave Glacier | Friday | " 3 | 14.10 | " |
| Arrive Vancouver | Saturday | " 4 | 13.00 | " |

PARTY No. 3.

| PLACE. | DAY OF WEEK. | DATE. | TIME. | ROUTE. |
|-------------------------|----------------|---------|------------|-----------|
| Leave Toronto..... | Friday | Aug. 27 | 12.55 p.m. | All Rail. |
| Arrive Sudbury | Saturday | " 28 | 12.45 a.m. | " |
| Leave Sudbury | Sunday | " 29 | 12.45 | " |
| Arrive Rat Portage..... | Monday | " 30 | 10.13 | " |
| Leave Rat Portage..... | Tuesday | " 31 | 10.13 | " |
| Arrive Winnipeg..... | Tuesday | " 31 | 15.35 | " |
| Leave Winnipeg..... | Tuesday | " 31 | 17.10 | " |
| Arrive Banff..... | Thursday | Sept. 2 | 6.07 | " |
| Leave Banff..... | Friday | " 3 | 6.07 | " |
| Arrive Glacier | Friday | " 3 | 14.10 | " |
| Leave Glacier | Saturday | " 4 | 14.10 | " |
| Arrive Vancouver | Sunday..... | " 5 | 13.00 | " |

PARTY No. 4.

| PLACE. | DAY OF WEEK. | DATE. | TIME. | ROUTE. |
|------------------------|-----------------|---------|------------|-----------|
| Leave Toronto | Monday | Aug. 30 | 12.55 p.m. | All Rail. |
| Arrive Winnipeg..... | Wednesday | Sept. 1 | 15.35 | " |
| Leave Winnipeg..... | Thursday | " 2 | 17.10 | " |
| Arrive Banff..... | Saturday | " 4 | 6.07 | " |
| Leave Banff..... | Sunday | " 5 | 6.07 | " |
| Arrive Glacier | Sunday | " 5 | 14.10 | " |
| Leave Glacier | Monday | " 6 | 14.10 | " |
| Arrive Vancouver | Tuesday | " 7 | 13.00 | " |

Arrangements for the return journey will be completed at Vancouver. Members should give notice to the Agent of the Canadian Pacific Railway at that point, at least three days in advance of the date on which they desire to begin the return journey.

The Sleeping Car rate from Toronto to Vancouver is \$18.50; from Ottawa to Vancouver, \$20.00; from Fort William to Vancouver, for the party taking the Lake Route, \$15.00. The rates quoted are for double lower or double upper berths. Members, both by Rail and Lake Routes, will be required to pay for meals and berths.

BRITISH ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE

| Route | Time | Date | Day of Week | Place |
|----------|------------|---------|-------------|------------------|
| All Rail | 12:55 p.m. | Aug. 30 | Monday | Leave Toronto |
| " | 12:55 | Sept. 1 | Wednesday | Arrive Winnipeg |
| " | 12:55 | Sept. 2 | Thursday | Leave Winnipeg |
| " | 6:07 | Sept. 3 | Friday | Arrive Banff |
| " | 6:07 | Sept. 4 | Saturday | Leave Banff |
| " | 14:10 | Sept. 5 | Sunday | Arrive Glacier |
| " | 14:10 | Sept. 6 | Monday | Leave Glacier |
| " | 13:00 | Sept. 7 | Tuesday | Arrive Vancouver |

Members should give notice to the Agent of the Canadian Pacific Railway at that point, at least three days in advance of the date on which they desire to begin the return journey.

The sleeping car rate from Toronto to Vancouver is \$18.50; from Ottawa to Vancouver, \$20.00; from Fort William to Vancouver, for the party taking the Lake Route, \$15.00. The rates quoted are for double lower or double upper berth. Members, both by Rail and Lake Routes, will be required to pay for meals and berths.

| Place | Day of Week |
|------------------|-------------|
| Leave Toronto | Monday |
| Arrive Winnipeg | Wednesday |
| Leave Winnipeg | Thursday |
| Arrive Banff | Friday |
| Leave Banff | Saturday |
| Arrive Glacier | Sunday |
| Leave Glacier | Monday |
| Arrive Vancouver | Tuesday |

| Place | Day of Week |
|--------------------|-------------|
| Leave Toronto | Monday |
| Arrive Sudbury | Tuesday |
| Leave Sudbury | Wednesday |
| Arrive Rat Portage | Thursday |
| Leave Rat Portage | Friday |
| Arrive Winnipeg | Saturday |
| Leave Winnipeg | Sunday |
| Arrive Banff | Monday |
| Leave Banff | Tuesday |
| Arrive Glacier | Wednesday |
| Leave Glacier | Thursday |
| Arrive Vancouver | Friday |

BRITISH ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE

TORONTO MEETING, AUGUST 18-25, 1897.

Party No. 3.

- | | | | |
|--------------------------------|-----------------------------|-----------------------------|---|
| ✓ Mr. Lamplugh. | | ✓ Colonel and Mrs. Bailey. | ✓ |
| ✓ Professor Miers. | ✓ | ✓ Arthur Harden. | ✓ |
| ✓ Professor Penck. | ✓ | ✓ Professor Le Neve Foster. | |
| Professor Magnus. | | ✓ Mrs Le Neve Foster. | |
| ✓ J. Scott Keltie. | ✓ | ✓ Two Misses Foster. | |
| + ✓ Dr. Mill. | ✓ | Prof Davis | ✓ |
| + ✓ Mrs. Mill. | ✓ | Gen Dawson | ✓ |
| E. G. Ravenstein. | <i>not going</i> | C. Darbishire | ✓ |
| Mrs. Ravenstein. | | Prof Hertle | ✓ |
| ✓ Mr. Blanford. | ✓ | Boutwell | |
| + ✓ Sir George S. Robertson. | ✓ | | |
| Dr. H. O. Forbes. | <i>gone back from work.</i> | | |
| + ✓ Professor T. Hudson Beare. | ✓ | | |
| + ✓ Mrs. Beare. | ✓ | | |
| ✓ Prince Kropotkin. | ✓ | | |
| Prof H. E. Armstrong. | ✓ | | |
| ✓ Professor Coleman. | | | |
| ✓ Mr. W. E. Hoyle. | ✓ | | |
| ✓ Mrs. Hoyle. | ✓ | | |

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Party No. 3.

Colonel and Mrs. Bailey
Arthur Hadden
Professor Le Neve Foster
Two Misses Foster

Dr. G. G. G.

Mr. Langhugh.

Professor Miers.

Professor Benck.

Professor Magnus.

J. Scott Keltie.

Dr. Mill.

Mrs. Mill.

E. G. Ravenstein.

Mrs. Ravenstein.

Mr. Blanford.

Sir George S. Robertson.

Dr. H. O. Forbes.

Professor T. Hudson Beare.

Mrs. Beare.

Prance Kropotkin.

H. E. Armstrong.

Professor Goffman.

Mr. W. E. Hoyle.

Mrs. Hoyle.

Party No. 1.

Leaving August 26th.

Lord Kelvin.

Professor Braun.

Lady Kelvin.

Sir John and Lady Evans.

Professor Rücker.

Dr. van Rijckevorsel.

Professor Bower.

Professor Dunstan.

~~Professor Dunstan.~~

Professor Poulton.

Professor Runge.

Professor Marshall Ward.

Mr. Bottomley.

Mrs. Bottomley.

Professor Harcourt.

Miss Harcourt.

Mr. Griffith.

Miss Griffith.

Professor Herdman.

Mrs. Herdman.

Party No. 1.

Leaving August 28th.

- Lord Kelvin.
- Lady Kelvin.
- Professor Baker.
- Dr. van Rijkevorsel.
- Professor Bower.
- Professor Dunstan.
- Professor Dunstan.
- Professor Boulton.
- Professor Ruge.
- Professor Marshall Ward.
- Mr. Bottomley.
- Mr. Bottomley.
- Professor Harcourt.
- Miss Harcourt.
- Mr. Griffith.
- Miss Griffith.
- Professor Herdman.
- Mrs. Herdman.

Professor Braun.

Sir John and Lady Evans.

Party No. 2.

Professor Sherrington.

Professor Henrici.

Mrs. Sherrington.

Professor G.F.Fitzgerald.

Dr. Crookshank.

Mrs. Crookshank.

Professor Forsyth.

C.V.Boys.

Mrs. Boys.

~~Professor Farmer.~~

Professor Meslans.

Professor Perry.

Professor S.P.Thompson.

General Webber.

Professor Ewing.

Professor Greenhill.

Professor Halliburton.

Mrs. Halliburton.

Professor W.H.Hudson.

Professor W.G.Adams.

Professor Meldola.

No. 2.

Party No. 2.

Professor Herrick.

Professor Sherrington.

Mrs. Sherrington.

Professor G.F. Fitzgerald.

Dr. Crookshank.

Mrs. Crookshank.

Professor Forsyth.

O.V. Boys.

Mrs. Boys.

Professor Farmer.

Professor Mealand.

Professor Perry.

Professor S.P. Thompson.

General Webber.

Professor Ewing.

Professor Greenhill.

Professor Halliburton.

Mrs. Halliburton.

Professor W.H. Hudson.

Professor W.G. Adams.

Professor Melbold.

OUTSIDE.

100
100

No 2

Sir Bosdin and Lady Leech. Miss Leach.

~~Dr. Dawson.~~

Professor and Mrs. Heaton.

No 3

Professor Hürthle.

Lord Lister.

via Montreal

Mr. Arthur Lister.

" "

Professor Foster.

" "

Mrs. Foster.

" "

No 1

Mr. Saunders.

Professor and Mrs. Ramsay.

Professor G.C. Foster.

Mrs. Foster.

Miss Foster.

Mr. Walker.

100

Outside,

OUTSIDE.

Mrs. Leach Sir Bodin and Lady Leech.

Dr. Dawson.

Professor and Mrs. Heston.

Professor Hirthis.

in pocket Lord Lister.

Mr. Arthur Lister.

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The British Association Members Enjoy the Hospitality of the City.

Banquet at the Driard—Important Addresses—The Plans For To-day.

Varied and numerous are the guests of importance who have, for a time at least, enjoyed the hospitality of British Columbians in this the capital of the province. Many have been the encomiums passed by the visitors upon the hospitality shown them, and loud their praises of the advantages in situation, natural charm and enjoyable climate possessed by this far away outpost of the Empire.

But it is probable that never in her history has Victoria had the opportunity of entertaining at one time so many who are distinguished in the world of science as were recipients of the city's welcome yesterday. Nor is it possible that more easily entertained, pleased or delighted guests could favor us with their presence.

Members of the British Association for the advancement of science should, if anyone, be awake to the advantages to be gained by even a hurried visit to hitherto, to them, unknown countries. And also should they be more than ordinarily equipped with the necessary information to enable them to detect the evidences of a country's potentialities. It is, then, a source of congratulation that the unanimous opinion of those whose coming was looked forward to with pleasure and from whom the city parts with regret, that for British Columbia there is a future bright with promise.

After spending summer in the manner which best commended itself to the individual choice, the members of the Association were early astir yesterday. The morning was pleasantly occupied in visiting the different places of interest, many of the party going by car to Esquimalt. In the afternoon a goodly number were driven round the city, the committee acting as cicerones and doing all possible to add to the pleasure of the excursion.

Some, following the natural bent of their minds, went further afield in pursuit of botanical, entomological and marine specimens. Others took the opportunity of renewing old friendships, but all were pleasantly occupied and all were pleased.

In the evening a banquet was given by the members of the third section of the visiting party at the Driard hotel. The third section, in availing themselves of the invitation of the C.P.R. to visit the Coast, placed themselves under the guidance of Dr. Dawson, Director of the Dominion Survey, who was ably supported by Professor Coleman. These gentlemen proved invaluable as guides to the characteristic features of the magnificent region through which the party passed, and as a recognition of their services it was decided to tender them a banquet.

Sir George Robertson occupied the chair, and Dr. Scott Keltie the vice-chair. The honored guests, Dr. Dawson and Dr. Coleman, were on either hand of the president, and the other guests were:

Prince Krapotkin.
Professor Armstrong.
Professor Huerthe.
Professor and Mrs. L. N. Foster.
Professor and Mrs. Beare.
Colonel and Mrs. Bailey.
Dr. and Mrs. Mill.
Mr. and Mrs. Hoyle.
Mr. Miers.
Mr. Lamplough.
Mr. Harden.
Professor Penck.
Dr. Blanford.
Miss Foster, and
Miss Helen Foster.

The following is the

MENU:

Anchois marins.
Huitres natural.
Julienne.
Turbot regence.
Saute financiere en caisse.
Filet de boeuf aux champignons.
Punch Romaine.
Faisan chasseur.
Asperges beurre fondant.
Omelette souffle.
Postea.

After full justice had been done to the excellent menu the usual loyal toasts were duly honored.

The Chairman proposed the toast of the evening which was received with acclamation.

In rising to ask those present to join with him in toasting Dr. Dawson and Prof. Coleman, Sir George Robertson said, "Very rarely does anyone preside over such a dinner as this or has such a delightful and easy a task to perform as falls to my lot this evening. In fact the mere mention of the names of the gentlemen to whose health I have the pleasure of asking you to drink would be the best and most eloquent recommendation of the toast. Our trip across this beautiful country will long be remembered, I think, by all of us, and perhaps the most bright and cheerful incidents we have enjoyed have been due to the goodness and uniform kindness of the gentlemen in whose honor we are gathered here this evening. I wish very much that among the literary talent we brought over with us we find someone to write a record of our journey. The record, I am sure, would be as interesting as it would be amusing. Just think of the scenery that might be described. Who amongst us will ever forget, for instance, the sunset on the prairie just before we reached that place with the peculiar name, Medicine Hat. Or the beauties of the Mécillewaet, and the Fraser, or the placid beauty of the Lake of the Woods; and then think of the picturesque accessories that might be worked in, of the gophers, coyotes, Indians and buffalo trails, all suggestive of Fenimore Cooper? and of the new cities, which bring to mind Bret Harte, such as Sudbury and Rat Portage? or the wonderful Arabian Nights-like growth of Winnipeg and Vancouver! And the C.P.R. itself! That wonderful combination of

romance and business instinct. It would require a Kipling to sing the song of that great work. And then, think of our own progress and our thoughts!"

After humorously referring to the many pleasant experiences met with on the journey, Sir George continued:

"And now I must refer to the extreme kindness and generosity with which we have been treated by the Dominion government, the Ontario government and the government of British Columbia, and the management of the C. P. R. All have treated us in the most princely style, and I feel quite sure that I express the sentiments of you all when I say that the sense of gratitude for their hospitality has sunk deeply in our hearts and will never be forgotten by any of us. Ladies and gentlemen, I ask you to drink to Dr. Dawson, explorer, man of science and able government official. The best of men, the kindest of guides, our friend and philosopher. And to Dr. Coleman, to whom our thanks are also due, and who won our admiration for the manner in which he has handled his team of thoroughbred geologists."

After the toast had been drunk with musical honors,

Dr. Dawson in reply said: "Ladies and Gentlemen,—I am glad there is no occasion for a long speech in thanking you for the honor you have done me. Here in Victoria I like to think I am very much at home, and in coming out here in the hope of doing something to help my friends I find myself a guest of those I came to help. It has, however, given Dr. Coleman the opportunity of saying how much we value the opportunity of expressing our thanks. If you, ladies and gentlemen, have enjoyed the trip as much as we have, you have all enjoyed it very much, for speaking from the point of view of one who has done some work in this province I can say it is a great pleasure to show any one else something that you know and understand, and one of the chief enjoyments connected with carrying on work in remote parts of the world is to have an opportunity of having an expression of opinion from others upon what has been done."

Professor Coleman, acknowledging the toast, said: "Dr. Dawson has expressed all that can be said in reply to the toast you have kindly drunk in our honor. All I can add is in emphasis of his remark in regard to the pleasure it is to us to have had the opportunity of welcoming you out here. In this comparatively isolated country of British North America we work very far apart, we don't come together very frequently, and it is a great advantage to us to have the eye of another geologist cast upon the work which we are doing to test and decide upon the wisdom of our own judgment."

The health of the chairman was then proposed and drank with acclaim, and the meeting dispersed.

The following is a complete list of the members of the British Association who are visiting the city:

Sir John Evans, K.C.B., president of the Association.

Lord Kelvin, the world-renowned physicist, long known as Sir William Thomson, professor of natural philosophy, Glasgow University.

Prof. A. W. Rucker, secretary R. S., treasurer of the association, professor of physics, Royal College of Science, London.

G. Griffith, secretary of the association, Burlington House, London.

Dr. C. Runge, professor of mathematics, University of Hannover, Germany.

Dr. Van Ryckevorsel, Rotterdam, Holland.

Prof. F. Bvaun, professor of physics, University of Strassburg, Germany.

Prof. K. Hurthle, professor of physiology, Breslau, Germany.

Prof. Mestans, professor of chemistry, University of Nancy, France.

Prof. Albrecht Penck, University of Vienna, Austria.

Prof. G. F. Fitz-Gerald, professor of physics, Dublin University, Ireland.

Prof. Henrici, professor of mathematics, Central Institution, Kensington, London.

Prof. A. R. Forsyth, professor of mathematics, Cambridge University.

Prof. J. A. Ewing, professor of engineering, Cambridge University.

Mr. C. Vernon Boys, Metropolitan gas referee, Board of Trade, London.

Prof. Perry, professor of engineering, Royal College of Science, London.

Prof. A. G. Greenhill, professor of mathematics, Artillery College, Woolwich.

Prof. W. G. Adams, professor of physics, King's College, London.

Prof. T. Hudson Beare, professor of engineering, University College, London.

Prof. H. H. Hudson, professor of mathematics, King's College, London.

Prof. A. W. Scott, professor of mathematics, Lampster College, Wales.

Dr. J. T. Bottomly, assistant professor of natural philosophy, Glasgow University.

Prof. H. G. Armstrong, professor of chemistry, Central Institution, Kensington, London.

Dr. Wm. Saunders, director of experimental farm, Canada.

Prof. R. Meldola, professor of chemistry, City and Guilds Institution, Finsbury, London.

Mr. Wyndham R. Dunstan, of the Imperial Institute, secretary of the Chemical Society, London.

Dr. Arthur Harden, Owens' College, Manchester.

Dr. G. M. Dawson, director of the geological survey of Canada.

Dr. W. T. Blanford, former president of the Geological Society, London.

Dr. C. Le Neve Foster, inspector of mines, England.

Mr. B. E. Walker, manager of the Canadian Bank of Commerce, local secretary of the association.

Prof. H. A. Miers, professor of mineralogy, Oxford University.

Prof. Coleman, professor of geology, Toronto University.

Mr. G. W. Lamplough, geological survey, England.

Prof. Marshall Ward, professor of botany, Cambridge University.

Prof. E. B. Poulton, professor of zoology, Oxford University.

Mr. W. B. Hoyle, Owens College, Manchester.

Prof. W. A. Herdman, professor of Zoology, University College Liverpool.

Prof. F. O. Bower, professor of botany, Glasgow University.

Sir George Scott Robertson, G.C.S.I., resident at Chitral, India.

Dr. J. Scott Keltie, secretary of the Royal Geographical Society.

Dr. H. R. Mill, librarian of the R. G. S., London.

Col. F. Bailey, secretary of the Scot-

Robertson



TORONTO, 1897.

British Association
FOR THE
Advancement of Science.

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OF

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1897.



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