

The Iron and Steel Institute.

In this issue we give some illustrations of the visit of this important society to the leading cities of the Dominion. On the 29th of October the members of the Institute, who had already visited the chief cities of the United States, accompanied by several friends (including a number of ladies), arrived at Hamilton, Ont., by special train from the Falls. They were received by the officials of the city and representatives of its most important industries. Among the visiting party were: Col. Holland, C.B.; Sir James Bain, ex-Lord Provost of Glasgow; Henry Banks, Thomas and Mrs. T. Bantock, T. W. Crawhill-Wilson, E. Calquhoun Wilson, A. H. Dunachie, C. Evans, G. K. Harrison, A. E. Hunt, A. K. Huntingdon, I. J. Jenks, Geo. Kearsley, R. Laybourne, F. Marbourg, F. Monks, C. D. Phillips, Joseph Richardson, Geo. Slater, A. G. Service, Paul Siebel, H. C. Simpson, W. T. Thomas, R. Williamson, R. B. Thomas, J. F. Pease, W. Jenks, W. Howat, S. Dickenson, L. W. Crawhall, Wm. Bright, Thomas Ashbury and E. Parritt, of the *Manchester Examiner* and London *Chronicle*.

Mayor McLellan, accompanied by Messrs. Adam Brown, M.P.; A. McKay, M.P.; F. H. Stinson, M.P.P., with Aldermen Griffith, Stevenson, Blaicher, Hancock, Stewart, Smuck, McDonald, Nicholson, Dixon and several other gentlemen were among those who received the distinguished visitors. Sir James Kitson, the president, was not of the party, but the vice-president, Mr. Snelus, and the secretary, Mr. Jeans, were present. They were accompanied by B. T. A. Bell, of the *Mining Journal*; Dr. Selwyn, of the geological survey; H. B. Small, secretary of the agricultural department; Thomas McFarlane, chief analyst of the inland revenue department; Mrs. Fletcher, Miss Selwyn and Miss Gisborne, of Ottawa; Archibald Blue, Ontario statistician, and Capt. Low, the Lieutenant-Governor's aide-de-camp. After inspecting the chief points of special interest, as far as the unfavourable weather would permit, the visitors were escorted to the Arcade Hall, where luncheon had been prepared, and about two hundred and fifty persons did justice to the *menu*. After the usual loyal toasts, Mayor McLellan proposed the health of the Iron and Steel Institute, and Vice-President Snelus responded. Having expressed his surprise and satisfaction at the growth of so fine a city in what a few generations ago was an unclaimed wilderness, Mr. Snelus said that a great revolution was going on in the metallurgical industry, caused largely by the discovery of the valuable properties in nickel, and it afforded him and his colleagues infinite pleasure to note that Canada was rich beyond computation in that new and remarkable metal, which was going to be the great competitor of iron. He was astonished when he saw the inexhaustible deposits of nickel at Sudbury. He had always thought that nickel was a very rare metal, but he never knew that there were inexhaustible supplies of it in this Dominion. This, he felt sure, would be one great element in Canada's future prospects. Mr. Snelus concluded a practical speech by an appropriate reference to the motto on Hamilton's escutcheon—"I advance"—a motto which, he hoped, would be true of that thriving city in the future as in the past.

Mr. Adam Brown, M.P., spoke of the devotion of Canada to the Empire.

Mr. Thomas McFarlane, Dominion Analyst, Ottawa, responded on behalf of the German delegates, dwelling on the kinships between the two great races.

Sir James Bain, ex-Lord Provost of Glasgow, proposed the health of Mayor McLellan, to which His Worship responded, and, with the singing of "Auld Lang Syne," the banquet came to a close.

The party then visited Toronto, Sudbury, Ottawa and Montreal. In the Capital careful preparations had been made to give the Institute a worthy reception. The entertainment at the Russell was in every way successful. Covers had been laid for two hundred guests, and the Governor-General, Lord Stanley, presided. At His Excellency's right were Mr. Snelus, vice-president of the Institute; Lady Stanley, Sir John Macdonald, Mrs. Snelus, Lady Caron, Hon. Mr. Chapleau, D. Evans, Lady Thompson, Hon. Mr. Foster, Mrs. Bantock, Professor Huntington and Mrs. Robillard. At His Excellency's left were Lady Macdonald and Col. Holland, C.B.; Hon. Mr. Rowell, Mrs. Huntington, J. Kirsley, Madame Chapleau, Sir John Thompson, Mrs. Drummond, Mr. Jeans, Mrs. Foster, Mrs. Seyborne, Mrs. R. W. Scott, Mrs. Howat, J. B. Morgan, Mrs. Gwynne, Justice Gwynne, Mrs. Service, Mr. Drummond and Mrs. Evans. The vice chairs were occupied by Sir A. P. Caron, Hon. John Carling, C. H. Mackintosh, M.P.; H. Robillard, M.P.; Sheriff Sweetland and Mayor Errait.

His Excellency's speech was in admirable keeping with the occasion. He dwelt on Canada's vast and varied mineral resources, emphasizing its abundant supply of that newest element in metallurgy—nickel—and trusting that the visit of the Institute would give a fruitful impulse to the development of the wealth hidden in our rocks. His wish was gracefully acknowledged by Mr. Snelus in his reply. The vice-president concluded his speech by proposing the health of the Dominion Government, with which he coupled the name of Sir John Macdonald, the mention of which called forth such applause that it was some time before the venerable Premier could reply. The health of the Governor-General, proposed by Sheriff Sweetland, brought the banquet to a close amid much enthusiasm. The party then left for Montreal, where they arrived in due time on the evening of the 1st inst. The following is a

complete list of the English visitors and the Canadians who accompanied them to this city:—

Allan, James, Coatbridge, Scotland.
Bell, Charles, Stirling, Scotland.
Bell, B. T. A., Ottawa.
Bell, Dr. Robert, Ottawa.
Bain, Sir James, Glasgow, Scotland.
Bamlett, A. C., Thirsk, England.
Bantock, Mr. and Mrs., Wolverhampton.
Bruce, J. M., Melbourne, Australia.
Banks, H., Wolverhampton.
Butler, Isaac, Newport.
Byles, A. R., Bradford.
Cook, Mr. and Mrs. Thomas, Sheffield.
Coughlan, J. H., Leeds.
Colquhoun, W., Tredegar, Wales.
Craggs, H. S., and the Misses Craggs, Middlesboro'.
Diechmann, Herr A. O., Berlin, Germany.
Dickinson, Mr. and Mrs., Wolverhampton.
Dawson, Dr. G. M., Ottawa.
Drummond, Mr. and Mrs., Bradford.
Dumachie, A. H., Glasgow, Scotland.
Evans, Mr. and Mrs., Llanelli, Wales.
Ellison, Mr. and Mrs., Worthington.
Farnmouth, W., Swindon.
Fellows, S. F., Wolverhampton.
Goldbach, Mr. A., New York.
Gregory, Joseph, Manchester.
Harrison, G. King, and Miss Harrison, Stourbridge.
Hobson, J. F., Durham.
Hoffer, Herr, Genoa, Italy.
Howat, Mr. and Mrs. W., Glasgow.
Holland, Col. C. B., Tunbridge Wells.
Huntingdon, Prof. and Mrs., London.
Jackson, W. T., and Mrs. Jackson, Buxton.
Jeans, J. S., London.
Jenks, Walter, Wolverhampton.
Johnston, James, Manchester.
Jones, W. H., and Miss Jones, Rotherham.
Kearsley, Col., Ripon.
Loeber, F. R., Leeds.
Laybourne, R., Newport.
MacLaren, J. F., Glasgow.
Macfarlane, Thomas, Ottawa.
Marburg, Herr, Wiesbaden, Germany.
Marsden, B., Manchester.
Marsten, C., Wolverhampton.
Morgan, S. Vaughn, London.
Moss, Miss, London.
Muir, A., Manchester.
Muller, J. N., Middlesborough.
Oakes, Gerald R., Derby.
Oakes, F., Middlesborough.
Pease, J. F., London.
Perkins, J. W., London.
Phillips, W. D., Aberdare.
Powell, H. G., Wolverhampton.
Richardson, Joseph, Stockton-on-Tees.
Ridley, J. O., Newcastle.
Rummies, F. H., London.
Salter, M., Bradford.
Siebel, Herr, Dusseldorf, Germany.
Simpson, J., Whitehaven.
Service, Mr. and Mrs., Glasgow.
Selwyn, Dr. A. R. C., Ottawa.
Smith, G. J., Sheffield.
Snelus, Mr., Mrs. and Miss, London.
Sparrow, Mr. and Mrs., Wolverhampton.
Tannett, J. C., Leeds.
Thomas, J. L., Aberdare, South Wales.
Thomas, F., Sydbrook.
Walker, W. H., Sheffield.
Wilson, F. C., Alston.
Wilson, S. W., Alston.
Wilkinson, E. B., Port Henry, N.Y.
Zwibonne, Herr, Neuwied, Germany.

The first to step from the train on its arrival was Ald. Stevenson, followed by Acting-Mayor Hurteau, Aldermen Farrell, Clendinneng and Villeneuve, all of whom had met the special at Coteau Landing. By these the principal members of the party were introduced to Aldermen Roland and Wilson, and Mr. Henry Bulmer, president of the Harbour Commissioners, who were waiting at the station. The visitors at once drove to the Windsor, and soon after they reached there Sir William Dawson, Dr. B. J. Harrington, Mr. Richard White and Mr. Alexander Robertson, the two latter representing the Harbour Commissioners, came in to welcome them to the city, which for a few days was to be their home. The following programme, which was agreed upon, after the Reception Committee had consulted with the secretary of the Institute, Mr. Stephen Jeans, and Mr. B. T. A. Bell, editor of the *Canadian Mining Journal*, will give a general notion of the manner in which the visitors passed their sojourn at Montreal:

Monday (Nov. 3), at 9 o'clock—Visit the Grand Trunk Railway Workshops, the Montreal Rolling Mills, Messrs. W. Clendinneng & Son's foundry and the Canadian Pacific Railway Workshops at Hochelaga, returning by way of Craig, St. Denis and Sherbrooke streets. At 11 o'clock—Visit McGill University. At 2 o'clock—Drive from the Windsor to Mount Royal Park, by way of Dorchester and Fort streets, past the Montreal Seminary, along Sherbrooke and Park Avenue, and, after driving round the Park, return *via* McTavish street to the Windsor. At 7.30 p.m.—Banquet at the Hall.

Tuesday (Nov. 4), at 9 o'clock—Review of the Fire Brigade on the Champ de Mars. At 10 o'clock—Leave by steamer Filgate from second lock basin for Lachine, going up the canal and returning by the rapids, after which the harbour will be visited.

On Sunday (November 2) many of the visitors attended the churches. At the banquet in the St. Lawrence Hall Acting-Mayor Hurteau presided in the unavoidable absence of Mayor Grenier, and on his right and left were seated Mr. E. J. Snelus, Sir Donald A. Smith, Mr. H. A. Budden, Mr. E. P. Hannaford, Sir William Dawson, Mr. H. Bulmer, Col. Holland, C.B., Mr. D. Parizeau, Mr. R. Esdaile, and Mr. T. G. Shaughnessy. The vice-chairs were occupied by Ald. Clendinneng, Prefontaine, Stevenson, Farrell and Villeneuve. In addition to the aldermen and the members of the institute, the invited guests also included Sir Casimir Gzowski, K.C.M.G., Prof. Bovey, Hon. Ed. Murphy, Hon. J. R. Thibaudeau, Hon. Alexander Lacoste, Hon. W. W. Ogilvie, Hon. G. A. Drummond, Dr. G. M.

Dawson, Dr. B. J. Harrington, Messrs. J. J. Curran, M.P., A. T. Lepine, M.P., H. McLennan, Richard White, S. W. Wanklyn, D. Preston, K. W. Blackwell, P. W. St. George, E. W. Dodwell, C. A. Massey, Herbert Wallis, J. P. Cleghorn, P. A. Peterson, J. T. Beland, M.P.P., James McShane, M.P.P., J. S. Hall, jr., M.P.P., D. McIntyre, D. Lockerby, Andrew Allan, W. C. Van Horne, W. Wainwright, W. C. Munderloh and Mr. Fraser Graham, manager of the Nova Scotia Steel and Forge Company. Letters regretting inability to be present were received from Hon. G. A. Drummond, Hon. Ed. Murphy, Messrs. Andrew Allan, W. C. Van Horne, W. Wainwright and H. Wallis. The speeches by Sir William Dawson, Vice-President Snelus, Mr. J. Stephen Jeans (secretary of the Institute), Mr. Hugh McLennan, Dr. Selwyn, Sir Donald Smith, Mr. B. T. A. Bell, editor of the *Canadian Mining Journal*, Mr. J. J. Curran, M.P., Mr. Joseph Richardson, Acting-Mayor Hurteau, Aldermen Clendinneng and Rolland, and Messrs. R. White and W. D. Phillips, mainly covered the ground already indicated in connection with the visits to other cities. Sir William Dawson dwelt on the great importance of our deposits of iron ore, which existed in every province of the Dominion, and some of which were not surpassed anywhere; on the economic value of our lignites, as well as bituminous coal, of our wealth in nickel, our gold and silver, and other great resources. Mr. McLennan spoke of the advisability of the Mother Country giving the preference to what was produced within the Empire, and Mr. Jeans said he would like to see a reversal of the relations between Great Britain and the United States and Great Britain and Canada. Dr. Selwyn regretted that the members of the Institute had not seen more of our mineral capabilities than what Sudbury offered—our wealth of hematite and asbestos, for instance. Even the Geological Museum at Ottawa gave but an inadequate notion of Canada's vast resources. Mr. Bell hoped the Government would spend more for the development of our economic resources. Mr. Snelus spoke hopefully of the impression that the Institute would carry to England of Canada's exhaustless wealth. Sir Donald Smith assured the visitors that they had seen merely the threshold of our great natural treasury. Altogether the banquet was very successful, and the visitors seemed to enjoy the excursions and other entertainments planned for them, though the weather was a little trying. The party left this city on the evening of Tuesday, the 4th inst., in three separate Pullmans attached to the C.V.R. train for Boston, bearing with them the good wishes and *au revoirs* of their Montreal friends.

The Deepest Lake Known.

By far the deepest lake known in the world is Lake Baikal, in Siberia, which is every way comparable to the great Canadian lakes as regards size; for, while its area is over 9,000 square miles, making it about equal to Erie in superficial extent, its enormous depth of between 4,000 and 4,500 feet makes the volume of its waters almost equal to that of Lake Superior. Although its surface is 1,350 feet above the sea level, its bottom is nearly 3,000 feet below it. The Caspian Lake, or sea, as it is usually called, has a depth in its southern basin of over 3,000 feet. Lake Maggiore is 3,000 feet deep, Lake Como nearly 2,000 feet, and Lago-di-Garda, another Italian lake, has a depth in certain places of 1,900 feet. Lake Constance is over 1,000 feet deep, and Huron and Michigan reach depths of 900 and 1,000 feet.

The Famous Portrait Gallery.

The Duke of Richmond's famous portrait gallery at Goodwood House, near Chichester contains the counterfeit presentment of every Lennox, from Darnley, a remote progenitor, to the present duke. Goodwood is particularly rich in its collection of Sevres china, acquired by its third master when he was ambassador to the court of France. Among the numerous curiosities are the white satin baby shoes of the first duke, a watch and shirt that belonged to Charles I., a gold plate off which Napoleon breakfasted on the morning of Waterloo, together with the cockade and baton worn and borne by the Duke of Wellington in the same famous battle. The apartments occupied by the Prince and Princess of Wales during the race week are hung with magnificent specimens of Gobelin tapestry, representing scenes from "Don Quixote" and Hogarth's famous picture, *The Lady's Last Stake*.

The Battle of Waterloo.

An incident of the Battle of Waterloo, heard from the great Duke himself, was told by Lord Shaftesbury, the philanthropist, to the late Sir George Burns, in whose biography it is given by Mr. Edwin Hodder. At one moment in the battle the Duke of Wellington was left alone, his aides-de-camp having been despatched with messages. A gentleman in plain clothes rode up to him, and said "Can I be of any use, sir?" The Duke looked at him, and instantly said "Yes; take that pencil note to the commanding officer" (pointing to a regiment in the heat of the engagement). The note was taken and delivered, its bearer galloping through the thick of the fight to execute his commission. After the battle the Duke made every inquiry, but never could find out to whom he was indebted for this brave service. He told Lord Shaftesbury that he considered this one of the most gallant deeds that had ever come under his notice, seeing that it was done without prospect of honour or reward.