hope, and the people of this test region of country hope, the Canadian Government will proceed at once fore tract this important work. In con-nection with the Southern Railward from Toronto to Lake Huron, and me view of the tapul settlemant of the nathern portions of Caunda, the country about Lake Soperior, and the rast territory west of this great lake, this channel of communication will prove of informers advantage to Canada; and we have assurance in the many fine, substantial public works of this kind, which ! the Government has already built, that a Sorp Canal will be constructed here creditable to that Province.

Effect of the Earth's Botation on Lecomotion.

Mr. Urah Clarke, of Leicester, has called our attention to an article in the Mechanics Magazine, by himself, on the influence of the carth's rotation on locomotion. It is well known that us the earth revolves on its axis once in the twenty four hours, from west to cast, the velocity of any point on its surface is greater nearer the equator and less further from it in the ratio of the corne of the latitude. Mr. Clarke saysrailway travelling arise out of the view now taken. The difference between the rotative velocity of the earth on autiace motion at London and at Liverpool is about twenty-eight miles per hour; and this amount of lateral movement has to be gained or lost. amount of lateral movement has to be gained or lost, as respects the locomotive in each journey, according to the direction we are travelling in from the one place to the other; and in proportion to the speed will be the pressure against the sale of the rails, which, at a high velocity, will give an engine the tendency to climb the right-hand rail in each direction. Could the journey be performed in two hours between London and Liverpool, this lateral movement or rotative velocity of the locumntive would have to be increased or diminished at the rate of nearly one quarter of a mile per minute, and that entirely by side pressure on the rail, which, if not auflicient to cause the engine to leave the line, would be quite sufficient to produce violent and dangerous oscillation. It may be observed, in conclusion, that as the cause above alluded to will he inoperative while we travel along the parallels of latitude, it clearly follows that a higher degree of apped may be attained with safety on a railway running east and west than on one which runs north and south." There is no doubt of the tendency Mr. Clark apeaks of on the right-hand rail, but we do not think it will be found to be so dangerous as he says. It will bo the greatest on the Great Northern and Berwick lines, and least on the Great Western .- Heraputh.

Razons .- Barbers often tell us that razors get tired of shaving, but if laid by for twent days they will then shave well. By interoscopic examination it is found that the tired razor, from long stropping by the same hand and in the same direction, has the ultimate particles or fibres of its surface all arranged in one direction, like the edge of a piece of cut velvet, but, after a month's rest, these fibres re-arrange themselves beterogenously, crossing cuch other and presenting a saw-like edge, each tibre supporting its fellow, and hence cutting the beard, instead of being forced down flat wis out cutting, as when laid by These and many other instances are offered to prove that the ultimate particles of matter are always in motion, and they say that in the process of welding, the absolute momentum of the hammer causes an entanglement of orbits of motion, and hence a re-arrangement, as in one piece; in the cold state, a leaf of gold laid on a poluted surface of steel, and stricken smartly with a hammer, will have its particles forced into the steel so as to permanently gild it at the point of contact.— Scientific American.

ORNAMENTAL ZINC.

The application of zinc to merely ornamental purposes is a novelty that, judging from some specialens we have recently seen, there is no doubt will become very general. The metal may, of course, be had of any thickness, a coating is then attached to it by a

that will not build the Canal in ten years. We chemical process, on which ornamental designs in [in 1657. His mother was a Creole. Arrived at the unlimited ranely are colored, among nore submitted to us were imitations of Monaic work, marties of every description, landscapes and figures. The uses to which this zinc may be applied are too numerous to specify, but it seems peculiarly adapted to floor-ing, chimney-pieces, pillars, trays, waiters, chess-brank &c., &c. Its cost is moderate, and the durability of the material is unquestionable. -Art Jour-

EXHIBITION OF INDUSTRIAL ART.

Mr Dergan, a most liberal and enterprising in lividual who amassed considerable property as a railway contractor in Ireland, has offered to place at the disposal of a committee of the Reyal Dublin Society the sum of £20,000 to be applied in giving prominence and completeness to an exhibition of manufactures in 1882. His conditions are, 1st-That a suitable building shall be crected on the lawn of the Royal Dublin Society. 2nd-That the opening of the exhibition shall not be later than June, 1853. 3rd-That the special executive committee shall be nominated by him and three gentlemen, to be selected by the Council of the Royal Dublin Society from that body. 4th -Mr. Dargan shall have the nomination of the chairman, deputy chairman, and of the secretary of the special executive committee. fith-That at the termination of the exhibition the building shall be taken by Mr. Dargan and shall become his property at a valuation by competent persons. 6th-That, after payment of all expenses, if the proceeds of the Exhibition do not amount to £20,000, with in-terest thereon at 5 per cent, Mr Dargan shall re-ceive the proceeds, less all the expenses incurred This liberal offer has been accepted by the Suciety to whont it was made. A Committee will be formed without delay, at I the building commenced in the vicinity of Merrion Square, on a piece of ground be-louging to the Dublin Society. The Exhibition will differ from that recently opened in Cork, innamuch as it will be open to all countries, whereas the latter was limited to Irish productions.

Hatirax, Sept. 7.—The Nova Scotia telegraph line, heretofore owned by the Government of this Province, has been purchased by a private company, of which the Hon, S. Cunard is president. The line is to be put in the very best repair, and will be worked by gertlemen who are thoroughly nequainted with their business and fully aware of the importance of doing that having a proportion. their business promptly and correctly. The tolls be-tween here and Calais, Me, have been reduced to his teen cents on the first ten words, and one cent on cach additional word.

Biographical Calendar.

Sept. 19 | 1825 | Comto de Lacepedo, died. | 1841 | Lord Sydenham died. | 20 | 1327 | Falward II. murdered. 1815 William Hutton died.
1816 Dr. Francia died.
1858 Charles V. (Emporor of Germany) died.
1759 Silvestre de Lacy, born.
1832 Sir Waltor Sout, died. 1846 | Lord George Bentinck, died. 1606 | Richard Busby, born. 1851 | Ers. Sherwood, died. 1851 Mirs. Sherwood, died.
23 1738 Beerhave, died.
1024 Major Cartwright, died.
1835 Bellini, died.
1836 Madam Malibran, died.
24 1404 Williamvof Wykcham, died. | 1501 | Jeenne Cardan, born. | 1714 | William Romaine, born. | 1750 | A. G. Werner, born. | 1791 | Mrs. Hemans, born. 25

proper age, he was sent to the University of Cordona. with a view to entering the Church; but his tland underwent a change while he was yet a student and on his return to his native town with the degree of dector of laws, he began his public career as a larrister. His high reputation for learning, but may mera for honesty and independence, procured him as extensive practice; and he devot of himself to legal parents for thirty years, varying his prefessional arecations with the study of mathematics and mechanical philosophy, to which he remained addicted throughout his life. In 1811, soon after the revolution of the Spanish possessions in South America lecame general, Dr. Francia, then in his fifty-fourth year, was appointed Secretary to the independent junta of l'araguay, and such was the ability be displayed in this capacity, that, on the formation of a new Congress in 1813, he was appointed consul of the republic, with Yegras for his colleague. From this moment the affairs of his country underwent a favorable change; the finances were husbanded, peace was preserved in Paraguay while the rest of the South American Continent was a prey to anachy; and the peoples' gratitude to their deliverer was characteristically exhibited by conferring upon him in 1817, unlimited despote authority, which he exe-cised during the remainder of his life. He died 2016 Sept., 1840, aged 83 years. - Aliquis.

Advertigements.

GREAT ATTRACTION! .

PHE Committee of the Temperance Reformation Soci-Lety have much pleasure in staring that J. B. GOUGH. Laq., the great Temperance Lecturer, will deliver a fec-ture in Bi. Lawrence Hall, on Monday evening, at ? o clock. Admission 74 cach.

Mr. Gough will lecture in Mr. Roaf's Chapel, Adelaide St., every night during the week except Monday. 41-IL

ROSS, MITCHELL, & Co.

BEG to inform their Customers, and the Trade generally, that they will commence on the 17th inst. in their NEW PREMISES, to open upwards of

1,500 Packages nowly imported Dry Goods, Of British, French, Gorinan, American, and Home Manufacture, and in order to ensure a ready sale, their Pricus will be Low, and TERMS LIBERAL.

Toronto, Sept. 17, 1852.

2w41

Tenders for Weigh-House.

TENDERS will be received at this Office until Noon on Structure the 18th instant from Ruiders willing to contract to creet a New Weigh House, according to a plait and specification to be seen at this office. By order of the Market Committee.

Clerk's Office, Toronto, Sept, 17, 1852.

C. C. C.

All the Papers in the city to copy once,

DRY GOODS IMPORTATIONS.

Fall Arrivals—1852!

FILE subscribers bog to amounce that they are now receiving a large and varied assuriment of FALL IMPORTS, via the St. Laurence consisting of

Seasonable Fancy and Staple Dry Goods, Which have been carefully selected by themselves in the British Markets, and which they offer to their customers and the Trade on the most advantageous terms.

SHAW & TURNBULL.

Wellington street. Toronto, 11th Scpt., 1832.

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