

INCUBATORS FOR INFANTS.

On the Boulevard Port-Royal, Paris, in the neighbourhood of the Observatory, surrounded by a tall grey stone wall that bears the marks of age, stands the old convent founded by Angélique Arnaud in 1625, a picturesque agglomeration of buildings with spacious courtyards and cloisters and gardens. Over the doorway hangs a dirty tricolour flag, while the inscriptions "Liberté, Égalité, Fraternité," and "Maisons d'Accouchement," indicate that the convent, so memorable in the intellectual history of France, has had its destination changed. The convent of Port-Royal is now the great lying-hospital of Paris, commonly known by the name of "La Maternité," the refuge of unfortunate mothers. The cells where the nuns used to live and meditate are now occupied by austere hospital beds; the old gardens have become the recreation ground of the student midwives, whose youthful looks and neat uniform throw a note of gaiety over the vast and naked-looking wards; and the pious superior has been replaced by a man of science, the eminent obstetrician, Professor Tarnier. In visiting "La Maternité," with the literary souvenirs of Port-Royal fresh in one's mind, one is struck by all these contrasts; but when one is ascending a fine old Louis XIV. staircase, one is hardly prepared to be invited to inspect, in the first ward on the right, M. Tarnier's new "Cuvette pour Enfants." An incubator for children! What does that mean? Do they hatch children, nowadays, like eggs?

In the accompanying Illustration the reader will find a representation of these incubators, which have been employed with great success at "La Maternité" since 1881, and which are now being introduced into the other Paris hospitals. Science has long been preoccupied with the question of the treatment of feeble, and especially of prematurely born, children. M. Tarnier's incubator is the latest contribution to the solution of the problem. One of these incubators employed at "La Maternité," the one on the old model, is composed of a wooden box, the sides of which are about 4 or 4½ inches thick, hollow, and filled with sawdust for the sake of insulation. This box, resting on a stand 3 ft. high, is 27 inches broad and 31 inches deep; it is divided into two compartments by a central partition. In the upper compartment is placed the infant, and in the lower one a metal reservoir, containing about 15 gallons of hot water. To this reservoir is fitted a thermo-syphon, by means of which the water may be heated with gas, spirits of wine, or a petroleum lamp; and between the reservoir and the inclosing box a space is left for the circulation of the air, which enters at the bottom of the box, rises as it becomes heated, and escapes through orifices in the lid of the box, which is fitted with a pane of glass. The upper compartment has, besides the movable glass lid, a lateral door, through which to slide the cradle in and out; and it is separated from the lower compartment by a board pierced with holes, through which the warm air penetrates. The temperature of the upper compartment thus heated is maintained at about 89½ deg. Fahrenheit. At the Lariboisière hospital 93 deg. Fahrenheit are taken as the standard; but this question of the temperature to be preferred has not yet been definitely settled. As regards the means of heating the incubator, gas is employed at the Hôpital de la Charité, and an electrical alarm-bell attached to a Regnard regulator rings when the temperature rises beyond a certain point.

The second model of incubator employed by M. Tarnier, and also represented in our Illustration, is much simpler and cheaper, and less bulky. It consists simply of a wooden box 25 in. long, 14 in. broad, and 20 in. high, outside measurement. The wood is one inch thick, and may be coated with felt or padded inside. This box is divided into two parts by a board, some 4 in. shorter than the box, and placed at a height of 6 in. from the bottom. In the lower compartment are two lateral openings fitted with sliding doors; one, which can never be completely closed, gives passage to the air; the other is for the introduction of the stone bottles containing hot water, called in Paris *moines*, which are employed to heat the apparatus. The upper compartment, covered by a closely-fitted glass lid, receives the infant, and at one end is an orifice, furnished with a chimney and a revolving ventilator, through which the air escapes. In the opening that separates the two compartments is hung a thermometer with a wet sponge to moisten the air. The air enters at the bottom, passes over the bottles of hot water, rises into the upper compartment, passes over the whole length of the infant, and so out at the orifice at the end. The hot-water bottles hold each somewhat above a pint, and five of them may be placed in the incubator, but it is generally found that four suffice to maintain a temperature of 88 deg. to 89½ deg. Fahrenheit, the temperature of the room being 62 deg. to 66 deg. The heating is continued by changing one of the bottles about every two hours, and with this system there is no danger of over-heating. This incubator is so simple that any village carpenter can make it, and cheap enough to be within the means of all but the most destitute. The infants placed in incubators at "La Maternité," if they are strong enough, are fed by nurses, or else with asses' milk administered with a spoon, the feeding-bottle being prohibited in this establishment. The operations of feeding, washing, and dressing the infants placed in incubators are performed in the room at the ordinary temperature of 62 deg. to 66 deg., for the infants do not appear to be any more sensitive than other infants, and exposure to the air for a short period does them no harm. The infant in the incubator is dressed in ordinary swaddling clothes. The results obtained at "La Maternité" by the employment of incubators have been very satisfactory.

THE DYNAMITE CONSPIRACY.

In consequence of the explosion at Victoria Station on Tuesday morning last week, inquiries were set on foot, leading to the discovery of infernal machines in bags deposited in the cloak-rooms at Charing-cross and Paddington stations. They were fitted with clock-work machinery, and each contained about 20 lb. of dynamite, of American manufacture. In one case the fuse failed to explode; in the other the clock-work had stopped prematurely. Another bag containing dynamite and an infernal machine was found last Saturday in the cloak-room of the London, Chatham, and Dover Railway at Ludgate-hill. Careful examination of the luggage deposited at the other railway-stations has been made, but no other such parcels have been found.

The Government have decided to offer £1000 reward for such information as shall lead to the arrest of the persons responsible for the explosion at Victoria Station and the attempts to blow up the other stations. The railway companies offer a reward of equal amount. It is hoped that the police have obtained some clue to the conspirators.

Resolutions declaring the services of Lieutenant Waghorn, the pioneer and founder of the overland route to the East, worthy of recognition by his countrymen, and approving of the movement for the erection of a national memorial at Chatham, were unanimously passed at a meeting held on Monday in the Mansion House.

OBITUARY.

THE EARL OF SANDWICH.



The Right Hon. John William Montagu, Earl of Sandwich, Viscount Hinchingbroke and Baron Montagu, in the Peerage of England, Lord Lieutenant and Custos Rotulorum of Huntingdonshire, Hon. Colonel of the Militia, and High Steward of Huntingdon, died on the 3rd inst. His Lordship was born Nov. 8, 1811, the only son of George John, sixth Earl, by Louisa, his wife, daughter of Armar, first Earl Belmore; and succeeded to the family honours, at the death of his father, in 1818. He married, first, Sept. 6, 1838, Lady Mary Paget, daughter of Henry Willmott, first Marquis of Anglesey, K.G.; and secondly, Dec. 27, 1865, Lady Blanche Egerton, daughter of Francis, Earl of Ellesmere. By the former (who died in 1859) he leaves, with other issue, a son and successor, Edward George Henry, Viscount Hinchingbroke, now eighth Earl of Sandwich, born July 13, 1839, Colonel Grenadier Guards, and M.P. for Huntingdon since 1876. The Earl whose death we record was appointed Captain of the Corps of Gentlemen-at-Arms, sworn of the Privy Council in 1852, and in 1858 made Master of the Buckhounds. He resigned in 1859. The noble House of Sandwich was founded by a cadet of the Montagus, Earls of Manchester, Admiral Sir Edward Montagu, raised to the Peerage in 1660.

SIR J. J. R. MACKENZIE, BART.

Sir James John Randoll Mackenzie, sixth Baronet, of Scatwell, Ross-shire, J.P. and D.L., died at Versailles on the 28th ult. He was born June 20, 1814, the son of Sir James Wemyss Mackenzie, fifth Baronet, Lord Lieutenant and M.P. for Ross-shire; was educated at Westminster, and at Trinity College, Cambridge, and succeeded to the title at his father's decease in 1843. He married twice—first, in 1838, Lady Anne Wentworth Fitzwilliam, daughter of the fifth Earl Fitzwilliam, K.G., which lady died in 1879; and secondly, in that year, Mary Anne, daughter of Mr. James MacNeil, of Liverpool. He has died without issue, and is succeeded by his cousin, now Sir James Dixon Mackenzie, seventh Baronet, of Scatwell, born in 1830, who resides at Mountgerald House, Dingwall, is married, and has issue.

THE RIGHT HON. THOMAS MILNER GIBSON.

The Right Hon. Thomas Milner-Gibson, P.C., of Theberton House, Suffolk, J.P. and D.L., died on the 25th ult., on board his yacht *Resolute*, at Algiers. This distinguished statesman was born in Trinidad, in 1807, the only son of Major Thomas Gibson, 37th Regiment, by Isabella, his wife, only daughter of Mr. H. Glover, of Chester. He received his education at the Charterhouse, and at Trinity College, Cambridge, where he graduated as a Wrangler in 1830. He entered Parliament, as a Conservative, in 1837, as member for Ipswich, but in 1839, having adopted Liberal opinions, he resigned his seat. He stood again, but was defeated, and remained excluded from Parliamentary life until 1841, when he was elected for Manchester. He had devoted his energy and abilities to the great question of the abolition of the Corn Laws, and was the fellow-labourer with Cobden and Bright in the great Free Trade struggle. In 1846, on the formation of the Russell Ministry, he became Vice-President of the Board of Trade; in 1859, President of the Poor Law Board for a short time; and in the same year until 1866, President of the Board of Trade, with a seat in the Cabinet. In 1857 he lost the representation of Manchester, but shortly after was returned for Ashton-under-Lyne, for which he continued to sit until 1868. For thirty years he filled a foremost place in the political arena. He was, as already stated, a leading and persevering advocate of Free Trade, and he has left, besides, an honoured remembrance of the great services he rendered to the cause of cheap literature and the diffusion of untaxed knowledge among the poorer classes. Mr. Milner Gibson married, in 1832, Arithusa Susanna, only child of the Rev. Sir Thomas Gery Cullum, eighth Baronet, and leaves issue. A portrait of Mr. Milner Gibson is given on another page, from a photograph by Mr. Barraud, of Oxford-street.

THE HON. W. O. STANLEY.

The Hon. William Owen Stanley, F.S.A., of Penrhôs, Anglesey, Lord Lieutenant of that county, formerly M.P. and Captain Grenadier of Guards, died on the 24th ult. He was born Nov. 13, 1802, the second son of Sir John Thomas Stanley, seventh Baronet, of Alderley (raised to the Peerage in 1839), by Lady Maria Josepha Holroyd, his wife, and was first cousin of the late Dean Stanley. He received his education at Eton and in Germany, and in 1822 entered the Army, retiring with the rank of Captain in 1830. In 1837 he was elected M.P. for Anglesey, for Chester in 1850, and in 1857 for Beaumaris. In politics, he was a stanch Liberal. He married, Feb. 14, 1832, Ellen, youngest daughter of Sir John Williams, Bart., of Bodelwyddan, but was left a widower, without issue, in 1876.

SIR A. WOODIWISS.

Sir Abraham Woodiwiss, Knt., of The Pastures, Derby, J.P., died on the 24th ult. at Mentone. He was son of George Woodiwiss, stone merchant, of Duffield, by Dorothy, his wife, daughter of Mr. James Bunting, of Derby, and was married to Emma, daughter of Mr. Newton Wright, of Crich. Raising himself to wealth and position by railway and other contracts, he became Mayor of Derby in 1881-2. The Royal Agricultural Show and the Church Congress were held in that town during his tenure of office; and so great were the munificence and public spirit of the Mayor that he was knighted.

SIR C. SLADEN.

Sir Charles Sladen, K.C.M.G., whose death is announced, was a member of the Legislative Council of Victoria, and one of the most eminent of the politicians of that colony. He was born in 1816, the second son of Mr. John Baker Sladen, of Ripple Court, Kent, J.P. and D.L., by Etheldred, his wife, daughter and co-heir of Mr. K. B. St. Barbe, and after being educated at Shrewsbury and Cambridge, emigrated to Port Philip in 1842. For twelve years he practised as an attorney at Geelong, and on his retirement entered on the public career, in which he gained honour and esteem. In 1855 he became Colonial Secretary, and remained such until 1857, when the

O'Shamassay Ministry was formed. At the next general election he lost his seat for Geelong, but in 1864 was chosen a member of the Legislative Council for the western province, and in 1868 undertook to form a Ministry on the resignation of M'Culloch. The effort was, however, futile. In little more than two months he had to abandon the struggle. Thenceforward he continued, out of office, to be the leader of the Upper House. In 1870 he received the decoration of C.M.G., and in 1875 that of K.C.M.G. Sir Charles married, in 1840, Miss Harriet Amelia Orton.

DR. TODHUNTER.

Isaac Todhunter, Doctor in Science, one of the most distinguished mathematicians of his time, died on the 1st inst., aged sixty-four. He graduated at St. John's, Cambridge, in 1848, when he was Senior Wrangler and First Smith's Prize-man. His numerous mathematical treatises are recognised as standard works in the Universities and public schools; and his "Account of the Writings of William Whewell, D.D." was much appreciated. He married a daughter of the late Admiral Davies, and leaves issue.

We have also to record the deaths of—

Mr. Charles Plowden, the banker, of Rome, on the 28th ult., aged seventy-nine. He was a cadet of the very ancient Shropshire family, Plowden, of Plowden.

Mr. Charles Bagnall, of Snaeton Castle, Yorkshire, J.P., formerly, from 1865 to 1868, M.P., in the Conservative interest, for Whitby, on the 25th ult., aged fifty-six; son of Mr. Thomas Bagnall, of Newberries, Herts. He married, in 1850, Harriet Curtis, second daughter of Mr. John Chapman, of Whitby, and leaves issue.

Captain Francis Grant-Stuttie, R.N., second son of the late Sir George Grant-Stuttie, fifth Baronet, of Baldone, by Lady Harriet, his wife, daughter of Francis, seventh Earl of Wemyss, on the 28th ult., aged fifty-two. He served in the Crimean War as Acting-Lieutenant in the *Bellerophon*, and had the Crimean and Turkish Medals, and the Fifth Class of the Medjidie.

LONDON INTERNATIONAL AND UNIVERSAL EXHIBITION, 1884. To be held at the CRYSTAL PALACE. The Directors of the Crystal Palace Company, London, will hold at the Crystal Palace International Exhibition of Arts, Manufactures, and Industries, the **EXHIBITION OF 1884**, on ST. GEORGE'S DAY, APRIL 23, 1884, and will remain open for a period of at least six months. Prospective, Entry Forms, and all information may be obtained from the Executive Secretary, 14, Queen's Gate, S.W. The arrangements for the Fine Arts Section are under the direction of Mr. J. Forbes Robertson, 25, Charlotte-street, Bedford-square, W.C. G. Gordon Cleather, Manager, Crystal Palace, S.E.

THE SPORTSMAN'S EXHIBITION.—The THIRD ANNUAL SPORTSMAN'S EXHIBITION will be held at the AGRICULTURAL HALL, LONDON, on MARCH 6, 7, 8, 10, 11, 12, 13, 14, and 15, 1884.

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