of the building. On this rests a slab, also of reinforced concrete, the foundation proper of the building, a space of about 4 in. being left between the walls and the inner edge of the rim.

When an earthquake occurs, the platform and shingle move with the earth under the building, which, not being fixed to the ground, tends to remain still. It is claimed that the 'Salvus' foundation not only saves the building from damage or destruction, but also lessens the risk of fire during an earthquake and also the effects of wind pressure on the building, while the shingle itself provides an excellent damp-course. The additional cost ranges from 1½ per cent for large city buildings to 6 per cent for dwelling houses.

It may be recalled that, fifty years ago, Prof. Milne experimented with a similar foundation in Japan, and that, still earlier, lamp tables resting on spheres had been used in Japanese lighthouses by Messrs. Stevenson, the well-known lighthouse engineers1. Milne's building, 20 ft. × 14 ft., was made of wood and rested on four iron balls, 10 in. in diameter. These lay on saucer-shaped iron plates fixed on the heads of piles, and similar plates attached below the building rested on the balls. From the records of seismographs placed inside, it was seen that, with an earthquake, there was a slow motion of the building to and fro, but that all the sudden motion or shock was destroyed. Afterwards, in order to increase the rolling friction, Milne lessened the size of the balls until each pier of the building rested on a handful of 1-in. cast-iron shot. The house then stood firmly during storms of wind and, with the earthquake of February 12, 1884, it remained practically unmoved².

¹ NATURE, **32**, 213, July 2; 222, July 9; 316, Aug. 6; 573, Oct. 15; 625, Oct. 29; 1885. **33**, 7, Nov. 5; 435, March 11; 534, April 8; 1886. **

*"Brit. Ass. Rep.", 248-249, 1884; Inst. Civil Eng., Min. of Proc., **83**, 15; 1885.

University and Educational Intelligence

CAMBRIDGE.—The Clerk Maxwell scholarship for original research in experimental physics and especially in electricity, magnetism and heat has been awarded to H. Carmichael, research student of St. John's College. The value of the scholarship is £210 a year for three years.

THE Royal Technical College, Glasgow, after four years of decreasing student enrolments, is able to report for the past year an increase, from 878 to 910, in the number of its day students, and although there was a small further decrease in the number of evening students (to 2,485) the aggregate number of hours of attendance shows an increase, and it is hoped that the downward trend since 1929 has at last been arrested. There was a marked increase in the volume of advanced work. Some indication of the exceptional range and standard of the evening classes is given by the fact that 95 graduates of the Universities of Glasgow, Edinburgh, Aberdeen, St. Andrews, Cambridge, London, Leeds, Sheffield, Belfast, Allahabad, Calcutta, Dacca, Madras, Rangoon and Kyoto were enrolled. The Research Journal insugurated by the The Research Journal inaugurated by the College ten years ago has published, in all, 167 original contributions by the staff and senior students, chiefly in the fields of chemistry (48), mechanical engineering (41), natural philosophy (25), metallurgy (16), bacteriology (14) and electrical engineering (11).

Science News a Century Ago

Airy receives the Lalande Medal

The Lalande Medal of the Paris Academy of Sciences, founded in 1802 by the famous French astronomer Jerôme de Lalande (1732–1807), was for some time the blue-riband of the astronomical world. In his "Autobiography", Airy recorded that in November 1834 "the Lalande Medal was awarded to me by the French Institut, and Mr. Pentland conveyed it to me in December". The following year he recorded, "On Jan. 9th 1835 I was elected correspondent of the French Academy; and on Jan. 26th Mr. Pentland sent me £12 6s., the balance of the proceeds of the Lalande Medal Fund".

The Gallery of Practical Science

An advertisement in the *Times* of January 9, 1835, ran as follows: "Gallery of Practical Science, Adelaide-street and Lowther-arcade, Strand.—The Grand Exhibition is re-opened to the public daily, at 10 o'clock—Steam-engine and carriages travelling on a Rail-road—Clifton Suspension Bridge—Magnets of extraordinary power, producing brilliant light and electric phenomena—Steam Gun discharging 20 balls in a second—Beautiful Illustrations in Optics—Steam Boat Models moving in water—Painting—Statuary—Music and many entertaining Novelties, including a splendid Microscope. Admission to the whole 1s."

Sir Felix Booth made a Baronet

On January 10, 1835, the Mechanics' Magazine said: "His Majesty has recently conferred a baronetcy on 'Felix Booth Esq, of Roydon Hall, in the county of Essex', avowedly for his public spirited conduct in fitting out at his own expense the expedition to the Polar regions under the command of Captain Ross. Sir Felix Booth served the office of sheriff of London a few years ago, but on that occasion escaped the honour of knighthood, so often inflicted on the holders of that dignity, on some such important occasion as the bringing up of a loyal address. It is believed that the present is the first instance of a civic baronetcy having been bestowed for services in the cause of science. Captain Ross has also been knighted and received permission to wear the insignia of his numerous foreign orders in England." Sir Felix Booth was born in 1775 and died in 1850. Boothia Felix was named after him by Capt. Ross.

American Ice sent to India

In 1834, the American sailing ship Tuscany carried a cargo of ice from North America to India, and on January 10, 1835, the Mechanics' Magazine recorded that the master of the vessel had been presented with a handsome silver vase bearing the inscription: "Presented by Lord William Bentinck, governorgeneral and commander-in-chief of India, to Mr. Rogers, of Boston, in acknowledgement of the spirit and enterprise which projected and successfully executed the first attempt to import a cargo of American ice into Calcutta." About 100 tons of ice was conveyed in the Tuscany. The selling price was 6½ cents per lb. and it was calculated that "the owners received 12,500 dollars upon an investment which including the cost of all the extra precautions for preserving the ice, did not exceed 500 dollars".