THE MORGAN HOSPIT AL BCHOOL, DUNDEE, BCOTLAND.
We publish herewith an excellent view, selected from the London Buider. of an hospital recently erected at Dtudere Scotland. The circumstances attending its establishment are curious, and involve considerations of some importance.
Mr. John Morgan, whose name it bears, died in 1850. On the death of his last surviving sister, on the 15th of January, 1848, certain writings were found in her repositories, exeuted by her brother, containing some personal bequests of small amount, and declaring it to be his wish that the bulk of his fortune should be employed to es tablish in Dundee, the place of his na ablish in Dundee, the place of his na tivity, an institution for the education of hoys, on the model. of Heriot's Hospital in Ed-
inburgh. Previously to the death of his sister, inburgh. Previously to the death of his sister,
Mr. Morgan had fallen into at state of mental imbecility, and a curator bonis was appointed to take the management of his affairs. The writings alluded to passed into the hands of the curator, and formed the groundwork of litiEation which subsisted for some years, and ended in their being declared, by a judgment of the House of Lords, to constitute a cood and valid bequest of the fortune of John Morgan, or so much thereof as should be sufficient for the purpose of endowing a hospital for the education and maintenance of 100 boys ill the town of Dundee. After the appointment of trustees and governors, measures were taken for the construction of the hospital. A site was acquired, and a design, prepared by Messrs Peddie \& Kinnear, architects, Edinburgh, was approved of and adopted by the governors. The site is nearly triangular, and forms a sort of a wedge between two roads, enclosing about five acres. It slopes upwards from the enrance fate, and the hospital is built in the upper and broader portion of the grounds. The design presents a building quadrangular in form, 200 feet in breadth, 150 feet in depth, with an open court inside. The building may be called Flemish Gothic in style, and is two stories in hight, with a center tower rising to the hight of 120 feet, and projecting a few fee from the facade. In the ground floor it con tains the main doorway, which is formed in richly molded archway, surmounted by a richly molded archway, surmounted by crocketed label. Over the doorway, in the second story, is a three-light window, headed with cinquefoil tracery, and opening into a projecting balcony. On reaching the hight of the ridge of the building-the intervening space being filled in with a clock-the tower is corbelled out in the angles into circular tuxrets, each capped with a steep, slated roof Connecting the turrets are carved balconies, also corbelled out from the main walls of the ower. From this point the tower rises in a teep roof, formed in two stages, and exhi bits in front a carved group of windows, sur mounted by an ornamental gablet. The tower terminates in double pinnacles, united by an ornamental crest. On each side of the tower the design exhibits bay windows in the second story, surmounted by steep, crow-steן gables. Fstending on either side is a range of two-light windows in both stories, the upper being finished by gablets flanked and ter minated by pinnacles.

## Dangers of Benzine Scouring

M. Dumas, at a recent meeting of the French Academy of Sciences, stated that, in examin ing the process of scouring fabrics as usually practised by cleaners of old clothes (washing in benzine), he had discovered a norel and dangerous cause of fire. Workmen engaged in this industry had frequently complained of the benzine becoming inflamed during the scrabbing; and in order to test the question, 4 Dumas caused a piece of cashmere to be Ded in for a length of 18 fect . Every time ipped in for a length of 18 fec . Every time whe stuff partially emerged from the bath, while being rubbed between the hands, a
sharp pricking sensation upon those members and on the face was felt; and finally sparks were emitted from the fabric, sufficient, if the scouring had been briskly continued, to have ignited the inflammable Huid.


IHE MORGAN HOSPITAL, DUNDEE, SCOTLAND.
ally helped by the charitable, but never educated and never It was found that on the first day the observations were scatgiven a home. She gave birth to children, who became, tered through a very large range of error, the difference in paupers like herself; they increased and multiplied until, up time between the records of the event and of the observation to the present time, nine hundred descendants of the friend- varying in fact between the extreme values from $0 \cdot 16$ to less woman can be traced. Of this immense progeny, ex-: 0.08 of a second. The personal equation proper on the tending through six generations, two hundred of the more second day was between 0.2 and 0.3 of a second, and from vigorous are recorded as criminals, and a large number as that time it steadily decreased until it amounted only to diots, lunatics, prostitutes, and drunkards. In one single one seventh of a second; it then gradually increased until generation there were twenty children, three of which died the twelfth day, when amounted to 0.22 of a second. Whilvyoung, and the balance survived to maturity; but nine were this variation in personal equation occurred, the range of
sent to State prisons for aggregate terms of fifty years, and the rest were constant inmates of penitentiaries, jails, and almshouses.

## The Theory of Errors of Observation

Mr. C. S. Peirce, in an interesting article on the laws of errors of observation, and the nature of the so-called personal equation, gives the results of some experiments made upon an entirely untrained observer, a young man about eighteen years of age, who had had no previous experience whatever in observations. He was required to answer a signal consisting of a sharp sound like a rap, his answer being made by tapping upon a telegraph operator's key, nicely adjusted. by tapping upon a telegraph operator's key, nicely adjusted.
Both the original rap and the observer's tap were recorded Both the original rap and the observer's tap were recorded
by means of a delicate chronoscope, and five hundred observations were made on every week day during a month.
errors or discordances was constantly decreasing, until on the twenty-fourth day the probable error of the result did not exceed one eightieth of a second. This is considered to clearly demonstrate the value of such practice in training the nerves for observation; and he recommends that transit ol). servers le kept in constant training by means of similar ol, servation of an artificial event, which can be repeated with ease and rapidity, it not being essential, he thinks, that those olservations should very closely imitate the transit of a star over the wires of a telescope, inasmuch as it is the general condition of the nerves which it is important to keep in training more than anything peculiar to this or that kind of ob-servation.-Harpers' Magazine.

The scrapings from oiled floors should be placed in the pen air. They are liable to spontaneous combustion.

