SuMMARY: —

at a disadvantage because of that antagonism between architec-
dalism as is implied in the painting-out of the broad frieze — rendered with some stiffness, yet with sufficient ac-
tural art and engineering science which obtains everywhere, in

RESULT OF THE LUXFER Compet TITION. . 103

LEGAL-GATES. ..

LICH-GATES. ..

ILES OF THE LAYER Competition. 103

ILLUSTRATIONS: —

had been in practice alone, almost the last work he had to

school until the weakening stage of sudden growth or teething

We regret to learn of the death in Denver, Colo., of Mr.

Weeghe the newspaper statements are to be trusted, the new Super-


tude of efficiency by counteracting natural or artificial defects

through the agency of rectifying spectacle lenses. As the defec-

teducation. The Institute schedule is merely recommendatory, like

in the Boston form, the Institute

SUCCESSFUL RECORDS OF THE LUXFER Competition. 103

sufrance that a member of the Institute who for one reason

We have just received a copy of the constitution and by-

the Colorado chapter, A. I. A., which is notable


career was spent in Colorado, where for two years he was in

Every other pupil, the next best thing to do may by some be

The Colorado Chapter, how-

one evil his new order promises to create a greater one.

Infortunate, the eyesight of school pupils is not only a matter of

Institute members from the Chapter rolls may indicate the suc-

The "Code of Ethics" formulated by the Boston Society of

the newspaper statements are to be trusted, the new Super-

professionals. The Institute schedule is merely recommendatory, like

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No. 1187.

TEN another respect the Colorado document is interesting.

"School headache" has long been known to be due as often

We have just received a copy of the constitution and by-

The Colorado chapter, A. I. A., is notable for two or three things. Although the Chapter received

帰む People it has always seemed regrettable that a depart-

affected by his surroundings as to commit such an act of van-

Laws of the Colorado Chapter, A. I. A., which is notable

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their teachers, not by oucials, is a remarkable thing to do, if such an order has really been issued. Probably the report is intended that all the teachers shall be more observant than in the past, and that if they have reason to suspect that a child's eyesight is defective such case shall be at once reported for proper examination by an expert.

The mere fact that the schoolroom lighting is not serious enough to deceive every care and attention, and architects are availing themselves of all the evidence they can secure, so as to afford to pupils the best amount of light—distributed in the most advantageous way. But while much attention has been given to size and position of windows, and some care has been taken to give the mod-surfaccs an agreeable and artistic treatment, we doubt whether enough thought has been given to the school blackboard, of which the black surfaces are often always fronting the schoolmen's eyes whenever they raise them from their books, so that the eye is strained by the continual contrast between the dark wall-surface and the white book-page. The matter of the color of the school blackboard has been studied, the reasons for which the black surface is to be maintained or changed to a color of which so many thousands have been squandered—a by-lying full of water beneath the river, and said to be nearly two-thirds finished, has, we believe, once more been sold by order of the Court, and the purchasers, having procured more English red, have decided to rebuild so as to take in the adjoining property. The result being that those who have conducted the inquiries advise the abolition of the black surface and the substitution therefor of a cream-colored, buff or yellowish surface, varying in tone and color according to the amount of light. As white chalk could not be used on such a board a colored crayon would be needed, and it is found that a sky-blue crayon gives the best results, as it is more permanent. Perhaps if the black board should be abolished much of the school-headache would go with it.

The folk-tale of the Germans wherein the peasant free-holder refused to sell his cottage to the lord of the manor so that the latter may remove an obstruction to his lady's outlook finds many a parallel in modern times in the self-respecting owner of a plot of land which blocks the carrying-out of some real-estate speculator's operations, or the still more obstinate holder of a leasehold who refuses to cancel or sell his lease to his own landlord, when the latter desires to improve the property or remove one of the obstructions of the first kind existed until recently in Philadelphia, where could be seen the great marble bulk of the Drexel Building standing in the midst of a fine front. Of an instance of obstinacy of the second kind ex-Governor Morton of New York was lately the victim. At New York, belonging to Mr. Morton, was burned some months ago and it was decided to rebuild so as to take in the adjoining property. The leases of the occupants of the building were bought up, but in some way or another the power to go on and extend the subway system to East Boston, even although to do so a tunnel must be made from the island Ward may be in the enjoyment of the same sort of rejuvenating impulse which Brooklyn experienced it was not remembered that a tobacconist had a separate lease of what probably used to be a passageway which had been fitted up as a store. When an attempt was made to pull down the building he stood upon his rights in lieu of the three thousand dollars he asked for his lease. Obstination begot snub is given with most frequency, always unconsciously and without apparent motive, but the result is that those who have conducted the inquiries advise the abolition of the black surface and the substitution therefor of a cream-colored, buff or yellowish surface, varying in tone and color according to the amount of light. As white chalk could not be used on such a board a colored crayon would be needed, and it is found that a sky-blue crayon gives the best results, as it is more permanent. Perhaps if the black board should be abolished much of the school-headache would go with it.

W HAT architect, the son of an architect, is a son who also is an architect, in like manner as Madrazo, whose death we chronicled a week or so ago, was both son and father of a painter? What does heredity amount to when it comes to the exercising of a talent which is supposed to be innate? It is one of the commonest instincts of paternalism for a father to seek to make a place and afford an opening for one of his sons by taking the young fellow into his office, store or studio. The step is taken largely because the father does not know what else to do with the boy, but more frequently still, we believe, through the mistaken belief that there is more in heredity than there really is. In the case of a mercantile business, well established and with strong and reliable connections, this belief is often not without its foundation, but when one has the inquiring mind and has come to doubt the continued success of his architectural practice the question arises whether he should not take his son along with him. There is no doubt that a son who is born in an architect's office is, if not a failure, at least a discontented man. A little consideration of the question will show that the causes of this discontent and failure are not wholly due to lack of inherited ability but chiefly if not solely to an amiable snub is given with most frequency, always unconsciously and without apparent motive, but the result is that those who have conducted the inquiries advise the abolition of the black surface and the substitution therefor of a cream-colored, buff or yellowish surface, varying in tone and color according to the amount of light. As white chalk could not be used on such a board a colored crayon would be needed, and it is found that a sky-blue crayon gives the best results, as it is more permanent. Perhaps if the black board should be abolished much of the school-headache would go with it.

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The American Architect and Building News. [VOL LXI.—No. 1187.]
LICH-GATES.

The term "lich-gate" is applied to a sort of open shed covering the entrance to a church-yard, so as to form a shelter under which the bier or coffin may rest on its way to the grave. These structures seem to be peculiar to English soil; for, with the exception of a mere mention of a law in Scotland and Wales, of which I have been unable to find adequate description or illustration, the only examples found are in England.

To quote the Church Builder, their most common form is a simple shed, covered either with tiles or thatch and supported on strong timbers well braced together. But they are sometimes built of stone.

There has been much discussion as to the age of these constructions. One writer declares that none of the existing examples are as much as three hundred years old. A correspondent of Notes and Queries, however, cites a fifteenth-century lich-gate at St. Peter's, South Weald, Essex; and adds that there are: "ancient lich-gates at Beckingham, Lincolnshire; Berrybarrow (Berryn Ar- bour), Devonshire; Biretal, Yorkshire; Bromsgrove, Worcestershire; Boughton, Berkshire; Garsington, Oxfordshire; West Wickham, Kent; and Worth, Sussex; all of which antedate the Reformation. Lich-gates are certainly of ancient origin, for we are told that "a gate formerly existed near Gloucester Cathedral, and under it the corpse of King Edward II rested on its way to interment, in 1272;' it was rebuilt by his successor and the side-walls remained in 1848 at the bottom of College Street."

Later authenticated examples occur at Cranley, and Whittlebourne, Herefordshire, both of which were built about 1635. There is a fifteenth-century lich-gate at Throwleigh, in Devonshire; and one of the beams of the gate at Abbots Kerwell bears the inscription, "Fear God — 1605, Honor ye King."

Of the older examples the Garsington gate is one of the simplest, being a more open shed with its ridge parallel to the street. The roof is supported on plates carried by six upright square timbers, from the middle pair of which the gates themselves swing. The whole structure is absolutely devoid of ornament. Equally plain is the stone gate at Biretal, Yorkshire: two gabled stone walls carry a rough roof, apparently of tile or slate. The ridge, like that of Garsington gate, is parallel to the street, but it is ornamented with three stone balls, one at the centre and one near each end. At West Wickham, Kent, is a lich-gate with a plain hipped roof. Here also the ridge is parallel to the street; the supporting timbers are arranged in fashion with a central timber upright. The roof seems to have been originally of thatch. The timbers were generally placed on a stone foundation, and were frequently very rough hewn, as at Boughton.

The gates themselves were either hung at the sides to swing back against the wall or side timbers, or they were turned upon a pivot in the centre, as at Childwall, Lancashire, and at Burnhall, Yorkshire. The device for opening the gate at Burnham is thus described:

"The stone pier on the north side has a well-hole in which the weight that closes the gate works up and down. An upright swivel-post or 'heart-tree' (as the people there call it) stands in the centre and through this pass the rails of the gate: an iron bent lever is fixed to the top of this post, which is connected by a chain and guide-pulley to the weight, so that when any one passes through, both ends of the gate open in opposite directions."

Kent seems to possess the most numerous examples of lich-gates. The Beckenham gate is similar in the arrangement of its timbers to that at West Wickham, but its roof has a saddle-backed ridge. At Boughton, Monchelsea, Kent, we find one with its gable end facing the street. This is an almost unique example among the older gates, though the majority of modern ones are arranged in this way. The verge-board of the Boughton gate is cut in rough Gothic fashion, but the timbers are very primitive not even being squared. The Lenham (Kent) gate is attached to another building. In the "Architectural Association Sketch Book" I find illustrations, and the following note in regard to it: "This lich-gate is obviously of the fifteenth-century construction with the exception of the roof, which must be of much later date, the rafters being very poor and rough and built into the adjoining house. It is commonly reported that this lich-gate was removed from Canterbury some one hundred years back, which, if true, may account for the peculiar treatment of the roof."

Lich-gates occur at Haston, Middlesex; Morewinston, Cornwall; and other places. In Wales they are found at Llandbedr and near Pensarn, Merionethshire. Of these, and the two Scotch gates said

1 "Architectural Association Society's Dictionary."
2 Church Builder Journal, 1862 (Stones of the Temple II, Plate 85).
4 Arch. P. S. Dictionary.
The lich-gate was usually a mere shed with perhaps seats placed along the sides and a coffin-rest or lich-stone in the centre. But at Bray Church, Berkshire, the lich-gate has two chambers over it, connected with an ancient charitable bequest. On one of the upright posts stands a memento of the dead, and the characters on the other are the spelling Parker's "Glossary of Architecture," the "Architectural Publication Society's Dictionary" and the "Century Dictionary" all adhere. Most of the architectural and archaeological magazines, however, use the term lich-circle or lich-round.

The lich-gate at Barking Abbey also has a chamber over it, called the "Bower." John S. Holbrook.

The lich-gate at Barking Abbey also has a chamber over it, called the "Bower." John S. Holbrook.

In Notes and Queries I find also the terms "lyke porch" and "lich porch" occurring as synonyms. In Devon and Cornwall, "lich gates" are called trim-trans, and in Herefordshire "scallage," or "scallenge" gates. Trim-trans is probably a corruption of the words "trim train," meaning the place where the mourners may be set in order before the burial-service commences. It is also possible that the word may have some connection with transept, meaning a part of a church between the nave and the aisles, or transept, hence a funeral car or bier on wheels.

Scallage or scallenge is probably derived from "scalus," a corrugated or slanting surface. In Notes and Queries I find also the term "lyke porch" occurring as synonyms. In Devon and Cornwall, "lich gates" are called trim-trans, and in Herefordshire "scallage," or "scallenge" gates. Trim-trans is probably a corruption of the words "trim train," meaning the place where the mourners may be set in order before the burial-service commences. It is also possible that the word may have some connection with transept, meaning a part of a church between the nave and the aisles, or transept, hence a funeral car or bier on wheels.

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SEPTEMBER 24, 1898.] *The American Architect and Building News. 101

From an architectural and engineering standpoint, the building is most noteworthy for its simplicity and efficiency. The main entrance is on the left, and at the end of the vestibule, on the right side. From there, a staircase leads to the entresol, which contains the offices of the secretary-general, the chief committee-room, and other important rooms. The entresol is 3.25 metres high, and contains a cloak-room for the use of the visitors. The decorations of the vestibule are greatly increased by the very beautiful electric-light brackets, and by two mosaic designs which ornament the ceilings, and which were, like many other things, gifts to the Society. The large mirror, to which the Society has already referred as having been presented by the Company de St. Gobain, measures 5.13 by 0.85 metres. At the bottom of the vestibule, incoming from the street there are six glass doors which give access to the great lecture-hall; these doors, as well as the screen of which they form a part, can be removed, so that when desired the vestibule and hall can be thrown into one.

The decoration of this hall is not yet completed; one of its principal features will be an artistic painting, which will occupy the left-hand wall on entering; for the present this wall is concealed by a screen of brocade. A very rapid progress has been made in the decoration of the entresol, which is being cut off completely from the main hall by means of an iron curtain, the design for which was prepared by M. Delmas, and made by M. H. Giffard. This curtain can be removed, so that when desired the vestibule and hall can be thrown into one. The hall is lighted from above, and is framed with a steel arched roof, unenclosed.

The decoration of this hall is extremely interesting, and will be understood by reference to the illustrations, Figures 8 to 12 of our two-page engraving; these figures show how the hall is divided into two stories; in the centre is the reading-room, and in the room forming an annex to the great hall. The apparatus for heating and ventilation, completed by the installation of the projector and oxyhydrogen apparatus for lantern displays, etc. On the next story, that is to say, the first floor, is a large committee-room giving access to a terrace constructed over the bay which is to the right on entering the vestibule, it is usually lighted from above, and is framed with a steel arched roof, unenclosed.

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The building trade, which for some years past has been so miserably dull, has this year awakened into very decided activity, especially in the city of Toronto. Its activity is of a healthy character; private residences, mercantile buildings and offices form the chief part of the work, and there appears to be very little of mere speculative building,—rows of cheap houses, for instance,—erected by builders with the aid of loan companies to be sold as soon as finished. Rosedale, the most beautiful suburb, from a picturesque point-of-view, where for a long time the sound of a builder’s tool has not been heard, is now alive with workmen, fine houses springing up in considerable numbers, fast filling-up vacant lots that have been heavy burdens for years past on the hands of their owners. It has taken years to get over the disastrous effects of the boom, and, indeed, they are not completely got over yet, but the signs of recovery are excellent. The boom caused Toronto to spread out in every direction; streets were laid out and lots sold and resold, to the great delight of local land agents, poor houses were run up and quickly sold, people moved out to the new suburbs, leaving better-owners” got so badly bitten, however, that there is no likelihood of built houses for cheaper rents, and no influx of population occurred. The new Court-house and Municipal Building (which has had experiments on the strength of white-pine, red-pine, hemlock and spruce, and is provided with tables which are very complete. It is the report of the architects whom the Manitoba should be informed of the law, though we will hope they may never have to make a nearer acquaintance with it. Lien law is quite changed; no lien can be for less than $20. In- terests existing at the time of the commencement of the work or the placing of materials on the ground have priority over liens. Insurance money may be applied under certain circumstances in reduc- tion of a lien. A lien is limited in amount to the sum owing to the contractor by the owner. If the latter does not pay in good faith 80 per cent before he receives notice of any lien that payment shall operate as a discharge in his favor. The owner is ordered to retain a percentage of the contract money for a period of thirty days after the completion of a building, the percentage be- ing in proportion to the non-performance of the contract and the registration of liens is to be made in detail, and arrange- ments about the trial of actions to enforce liens are also gone into fully. I should like to call attention to a valuable paper read before the British Association for the Advancement of Science in Toronto, 1897, by Prof. H. T. Rowey, of McGill University, Montreal. It is alto- gethers too long for reproduction here but it is given in full in the Canadian Architect and Builder. The paper is on the results of experiments in the strength of white-pine, red-pine, hemlock and spruce, and is provided with tables which are very complete. It is the August number of the journal hereafter. The Ontario Association of Architects, which has been in existence for six or seven years, has been doing splendid work. As a result of the purpose of obtaining legislation for the better protection of the public, it seems to be pretty well disregarded at the failures of its efforts in the past. But it has had its undoubted successes, both in point of direction, and in cooperation with the authorities of the School of Practical Architecture of the University of Toronto, and the number of meetings about the trial of actions to enforce liens are also gone into fully. The Ontario Association of Architects, which has been in existence for six or seven years, has been doing splendid work. 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Dr. Robertson's enthusiasm has somewhat led him astray. That Venice possessed many copies, both in manuscript and print, of the Scriptures, is a fact that Caxton conceived his ideas as regards the Bible in the vulgar tongue from the sculptures and glass of Westminster Abbey. The book is full of most interesting material, and the mosaics are most thoroughly described — each period being considered "fortunate that, having found many of the original pillars and reputable Jacobean architecture. Whether the religion of the Venetians was more "allegorical Bible" than that of other Catholics may be questioned. We see the same scheme in all our old churches. This, together with the glass, the sculptures, everywhere point to the doctrines of Christianity as illustrated in wood and stone in order that the unlearned, who ran, might read — Our Blessed Lord being the centre round and towards whom apostles, martyrs, prophets, saints and angels innumerable gravitated. St. Mark's is no more "a fragment of a fifth or sixth century copy of Jerome's Vulgate, the rest of which is preserved in the little town of Cividale in Friuli, and at Prague," the so-called signature of the apostle, than the constitution of nineteenth-century Early English work for honest Perpendicular and reputable Jacobean architecture. Whether it can be considered "fortunate that, having found many of the original carvings of the mosaics, the ancient designs can be reconstructed," is doubtful. The mosaics of St. Mark's, the book is full of most interesting material, and the mosaics are most thoroughly described — each period being considered "fortunate that, having found many of the original pillars and reputable Jacobean architecture.

In its report the committee says:

"Altogether thirty-nine different designs were submitted. Each design was numbered as received and was discussed always under the title of its number. By a process of exclusion we selected fourteen of these designs as worthy of prizes. Of these fourteen, we have placed the first five in what we judge to be their order of merit; ten of these designs as worthy of prizes. Of these fourteen, we have placed the first five in what we judge to be their order of merit; the remaining nine are arranged in alphabetical order.

Among the designs, your committee did not find more than one deserving of any prize whatever; they have, therefore, awarded but nine of the ten one-hundred-dollar prizes."
AMONG the civic architecture of the ancient free city of Goslar, about which we wrote but recently in these columns, one of the most noteworthy examples is the so-called Kaiserworth, a quaint building, situated in a prominent location on the market-square of the town. With the old fountain, topped by a gilded heraldic bird, in front of it, it presents a picturesque sight indeed. The Kaiserworth was built A. D. 1294, for the cloth-makers and tailors of the town, to serve as a guildhall for these trades, but for some time past it has been used as a hotelery. There is hardly a doubt but that the building, in its original shape, presented a far more harmonious and satisfactory appearance than it does now, as it bore the marks of repeated "restorations." In all probability, the present form is not what it was when new. The framework has been rudely knocked off in the attempt to gain room for the figures in the niches and to fit the royal robes into them. The windows of the second story, instead of being square and plain, as at present, were originally framed by similar decorative late-Gothic work, as are the windows in the oriel. The gargoyles over the statues seem to point to the former existence of gables between them, the same as are still seen at the town-hall, not far distant from this building. The four slate-covered dormers of octagonal plan were erected at a later date to replace said gargules. Perhaps at the same time, the pretty oriel, which then terminated in a long point, more in keeping with the existing lower part than the top-heavy turret which clumsy hands have put on it, had to submit to being altered too.

Whether the round arches of the portico belonged to the building originally, it is impossible to say. The eight curious wooden statues of the emperors which decorate the front do not represent any particular historical personages,—at any rate they lack any special marks of individualization, and are probably more decorative figures. The two figures of the side-façade represent Hercules and Abundantia respectively. The second story, which is now divided up into a number of small guest-chambers, contained formerly but one room, the large guildhall. It is thought that the wooden statues of the front originally had their places in this hall, and that the niches outside contained stone figures of smaller size, for the wooden figures are entirely too large to fit the corbels on which they stand and for the niches. It can plainly be seen how portions of the Gothic framework have been rudely knocked off in the attempt to gain room for the figures in the niches and to fit the royal robes into them. The latest restoration of the building took place in 1892, when the walls were plastered over and the wooden emperors received a new gilded finish.

The Markbecken (Market-basin), in front of the building, consists of a large basin of bronze, about ten feet in diameter, upon a base of sandstone, out of which rises a central shaft, five feet high, carrying with a gilded eagle which bears the imperial crown on its head. These bronze castings, in the Romanesque style, are of interest as modern origin. There is a bed of this stone about thirty miles from Macon, which was discovered during the construction of the Georgia Southern & Florida Railway, and which was used in the construction of several public buildings. It resisted the wear of the heavy traffic unusually well. After it had been in service for four or five years, the city paved a street having such satisfaction that several more have since been paved in the same neighborhood.

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<th>New York</th>
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<td><strong>STONE.</strong> (Per cubic yard, rough.)</td>
<td>(Wholesale Prices)</td>
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For pagination, see Alphabetical Index on Cover 2.

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