

Dr. Marcet also exhibited and explained a very interesting diagram, showing the analogy which exists in London between fogs and an excess of carbonic acid in the air of that city.

Mr. John D. Paul gave a lengthy and interesting geological lecture upon the Valley of the Soar, of considerable local and general interest, and in the discussion which followed the President of the Section, Mr. Mott, and others took part.

The Rev. T. Lawrence read a paper upon the Sanitary Evils arising from the improper burial of the dead, and in the discussion which followed cremation was advocated by Captain Douglas Galton, Prof. Symons, Mr. Boulnois, and others.

A valuable paper was then read by Mr. Charles E. Cassal, F.C.S., upon Hygienic Analysis, which was of a very interesting character, and which led to a long discussion.

In the absence of Mr. Whitaker, the Secretary of the Section read a paper entitled "A recent Legal Decision of importance in connection with water supply from wells," and the paper on "The use of Sodium Aluminate for softening and purifying hard and impure water," was taken as read, the author not being present, and the hour having arrived for closing the sectional meeting.

H. PERCY BOULNOIS, M.I.C.E.

Honorary Secretary.

REPORT OF THE JUDGES OF THE EXHIBITION, LEICESTER, 1885.

We, the undersigned, the Judges appointed by the Council, beg leave to recommend to the Council the following distribution of Medals and Special Certificates, and of Certificates of Merit.

Exhibits which have already received Medals at previous Exhibitions of the Institute are excluded from awards of Medals, but those Exhibits to which a second Medal would otherwise be awarded receive Special Certificates, and these are distinguished in the following list by asterisks.

THE RICHARDSON MEDAL for an EXHIBIT SELECTED FROM THE ENTIRE EXHIBITION will be awarded by the Judges in case of pre-eminent merit only.

SILVER MEDALS OFFERED BY THE GAS DEPARTMENT OF THE CORPORATION OF LEICESTER.

Four SILVER MEDALS are offered by the Gas Department of the Corporation of Leicester for Gas Stoves exhibited under the following classes:—

- 1.—For the best Gas Stove or Gas Apparatus for Cooking purposes for families, to include means for heating a good supply of water.
- 2.—For the best Gas Cooking Stove suitable for an artizan's family, for at least six persons.
- 3.—For the best and most Economical Gas Fire.
- 4.—For the best arrangement for Heating Baths by Gas.

SILVER MEDALS ARE OFFERED ALSO BY THE EXETER GAS COMPANY.

- 1.—For the best Gas Stove or Gas Apparatus for Cooking purposes for families, including a sufficient supply of hot water.
- 2.—For the best and most economical Open Gas Fire.

MEDALS AND STARRED CERTIFICATES.

CLASS I.—CONSTRUCTION AND MACHINERY.

- *BRADFORD, T., & Co., *London*, for Washing Machines.
 *DOULTON & Co., *London*, for Art Pottery.
 ELGOOD BROS., *Leicester*, for Artistic Domestic Iron-Work.
 ELLIS, J., & SONS, *Barrow-on-Soar*, for Barrow Blue Lias Hydraulic Lime.
 LEGGOTT, W. & R., *Bradford*, for Opener for Fanlights and Skylights.
 VICTORIA STONE CO., *London*, for Victoria Artificial Stone-Paving.

CLASS II.—SEWERAGE AND WATER SUPPLY.

- BOURTREHILL COAL CO., *Dreghorn, Ayrshire*, for White Enamelled Fireclay Cistern.
 *MORRELL'S SANITARY APPLIANCE COMPANY, *Manchester*, for Portable Cinder-sifting Ash Closet.
 *MOULES' EARTH CLOSET COMPANY, *London*, for Moules' Earth Closet.
 SANITARY AND HIGHWAY APPLIANCE CO., *Sheffield*, for Roberts's Street Orderly Bin.
 SANITARY AND HIGHWAY APPLIANCE CO., *Sheffield*, for Roberts's Sand-distributor for 2-horse Tram-track.
 *TROTT, H., *Battersea, London*, for the "Household" Closet.
 WILLACY, R., *Preston*, for Sand-distributor for Roads.

CLASS III.—HEATING, LIGHTING, AND VENTILATING.

- *DOULTON & Co., *London*, for Ventilating Tile Stove.
 *ELMSON, J. E., *Leeds*, for Conical Ventilators.
 *STOTT, J. & Co., *London*, for Mercury Gas Governor.

CLASS IV.—PERSONAL HYGIENE, FOODS, FILTERS, AND DISINFECTANTS.

- *CALVERT, F. C. & Co., *Manchester*, for Carbolic Acid for Disinfecting Purposes.
 *HANCOCK, F. C. & Co., *Dudley*, for Machines for domestic use.
 HUMBER & Co., *Nottingham*, for their Exhibit of Bicycles and Tricycles.
 JEYES' SANITARY COMPOUNDS CO., *London*, for Jeyes' Perfect Purifier.
 JOHNSON, W. F., *Leicester*, for Ornamental Domestic Appliances.
 LYON, J. W., *London*, for Steam Disinfecter.
 *MAGNEN, P. A., *London*, for Filtre Rapide.
 RICHARDSON, J., & Co., *Leicester*, for their Exhibit of Antiseptic Preparations.
 VIPAN & HEADLY, *London*, for their Exhibit of Dairy Appliances.

CERTIFICATES OF MERIT.

We further recommend that Certificates of Merit be awarded to the undermentioned Exhibitors:—

CLASS I.—CONSTRUCTION AND MACHINERY.

- B A ADAMS, R., *London*, "Victor" Spring Hinge.
 CROFT STONE QUARRY & BRICK CO., *Croft, Leicestershire*, for the Croft Artificial Stone Paving.
 DOULTON & Co., *London*, Silicon Tread for Steps.
 B A GREENALL, J., *Manchester*, Greenall's Steam Washer.
 JOHNSON, W. F., *Leicester*, for his exhibit of Repoussé and other brass work.
 KENWORTHY, E. N., & Co., *Oldham*, for Paragon Washing Machine with Canadian Washer.
 B A KENWORTHY, E. N., & Co., *Oldham*, Paragon Washing Machine, and Canadian Washer.
 NIGHTINGALE & Co., *Great Grimsby*, for Method of Wood Block Flooring.
 B A SMITH, E., & Co., *Coalville, Leicester*, Embossed Tiles.
 B A SMITH, E., & Co., *Coalville, Leicester*, Photographic Embossed and Incised Art Tiles.
 STIFF, J., & SONS, *Lambeth*, for their exhibit of Architectural Terra Cotta.
 WHITWICK COLLIERY CO., *Coalville, Leicester*, for their exhibit of Terra Cotta.

CLASS II.—SEWERAGE AND WATER SUPPLY.

- ADAMS & Co., *York*, for Potts' Edinburgh Sewer Trap.
 ADAMS & Co., *York*, for Improved Shape of Trough for Water Closets.
 BOURTREHILL COAL CO., *Dreghorn, Ayrshire*, for White Enamelled Sinks and Wash Tubs.
 BROAD & Co., *Puddington*, for White Enamelled Straight and Curved Channels for Inspection Chambers to Drains.
 BROAD & Co., *Puddington*, for White Enamelled Fire-clay Gullies.
 DOULTON & Co., *London*, for Economical Combination Closet in two pieces.
 ELLIS, J. J., *Ellistown Collieries*, for Gordon's Disconnecting Trap.
 FERGUSON & STARKEY, *Leicester*, for "Shanks's" Porcelain Lavatory Fittings.
 FERGUSON & STARKEY, *Leicester*, for Shanks's "Ureka" Spray and Plunge Bath.
 FERGUSON & STARKEY, *Leicester*, for "Unbreakable" Fire-clay Lavatory Basins for Schools, &c.
 FOSTER & PEARSON, *Nottingham*, for Morris's Cast Iron Gulley, with Moveable Dip Pipe.

A Deferred by the Judges in Competition for Medals.

B Submitted by the Exhibitors for further practical trial.

- GOODE & Co., *Loughborough*, for "Invicta" Flushing Cistern.
 GOODE & Co., *Loughborough*, for Double Valves for Flow and Return in Hot-water Circulation.
 GROOM & Co., *London*, for Well and Dry-Platform Sponge Bath.
 HUMPHERSON, F., *London*, for "Beaufort" Flush-down Closet.
 B A HUMPHERSON, F., *Chelsea, London*, Siphon Flushing Cistern.
 JOHNSON, W. F., *Leicester*, for Galvanized Iron Dust-Bin.
 KIRK, E. G., *Huddersfield*, for Night Soil Receptacle with Spring Lid.
 PRINGLE, R., M.D., *Blackheath*, for Working Model of Cattle Drinking Trough.
 SANITARY & HIGHWAY APPLIANCE Co., *Sheffield*, for Roberts's Asphalt Cauldron.
 SMITH J., & SONS, *Wolverhampton*, for Closed Sectional Sanitary Van.
 STIFF, J., & SONS, *Lambeth*, for Weaver's Ventilating Sewer Air Trap.
 WORTLEY FIRE CLAY Co., *Leeds*, for White Enamelled Straight and Curved Channels, and Channel Junctions for Inspection Chambers to Drains.
 WRAGG, T., & SONS, *Burton-on-Trent*, for Gordon's Junction Blocks for Lamp-holes and Inlets to Sewers.
 WRAGO, T., & SONS, *Burton-on-Trent*, for Gordon's Disconnecting Trap.
 WRIGHT BROS., *Leicester*, for Gordon's Ventilating Manhole Covers for Sewers with Annular Dirt Box.
 WRIGHT BROS., *Leicester*, for Gordon's Iron Ventilating Cover for Disconnecting Trap.

CLASS III.—HEATING, LIGHTING, AND VENTILATING.

- B A ASHWELL, F., *Leicester*, Blackman's Air Propeller.
 KITE C., & Co., *London*, for Telescoped Wall Inlet Ventilator.
 B A PURDY, W., *Nottingham*, Miners' Safety Lamp.
 SHARMAN, T., *Leicester*, for Heating Apparatus for Small Greenhouses.
 B A VERITY, E. & J., *London*, Crabtree Kitchen Range.
 WARNER, J., & SONS, *London*, for Lever Nut for Boiler Cock.
 B A WOODHOUSE & RAWSON, *London*, Electric Lighting Appliances.

CLASS IV.—PERSONAL HYGIENE, FOODS, FILTERS, AND DISINFECTANTS.

- ASHWELL, FRANK, *Leicester*, for Steam Kettle with specially arranged Tap for drawing Boiling Water.
 BETHELL, T. P., *Liverpool*, for the "Unique" Folding Box.
 BOWDEN, W., *London*, for Olive Oil Soap.
 CALVERT, F. C., & Co., *Manchester*, for Carbolic Acid Soaps.
 CALVERT, F. C., & Co., *Manchester*, for Tooth Soap.
 CLARKE, E., & Co., *Battersea*, for "Optimus" Coffee Extract.

A Deferred by the Judges in Competition for Medals.
 B Submitted by the Exhibitors for further practical trial.

- A COLTMAN, T., *Leicester*, for Conical Knitting Machine.
 GENT, J. T., & Co., *Leicester*, for their Exhibit of Electric Bells.
 JEYES' SANITARY COMPOUNDS Co., *London*, for Jeyes' Household Disinfecting Soaps.
 LEICESTER AMBULANCE CORPS, for Hand Ambulance.
 MAIGNEX, P. A., *London*, for the Soldier's Filter.
 MAIGNEX, P. A., *London*, for Field Hospital Filter.
 MIDLAND EDUCATIONAL Co., *Leicester*, for the "Reliance" Lift-up Desk.
 PARR, J., & Co., *Leicester*, for their Exhibit of Bicycles and Tricycles.
 STAYNES & SONS, *Leicester*, for Boot and Shoe Uppers.
 TAYLOR & Co., *Driffield & London*, for "Simplex" Desk with Adjustable Foot Board.
 TORRANCE, W. H., *Edinburgh*, for Rusks, Shortbread, and Oateakes.
 VIPAN & HEADLY, *Leicester*, for Heavy Steel Railway Churn, with Malleable Top and Dust-proof Lid.
 A VIPAN & HEADLY, *Leicester*, for Danish Cream Separator.
 WRIGHT, A., *London*, for Sanitary Night Lights.

EXHIBITS SELECTED FOR FURTHER PRACTICAL TRIAL.

With regard to the following Exhibits, the Judges are unable to give their decision until they have submitted the Exhibits to a more complete and extended practical examination than is possible at the Exhibition:—

CLASS I.—CONSTRUCTION AND MACHINERY.

- B ADAMS, R., *London*, Side Gussets for Fanlights and Reversible Window Fittings.
 B ADAMS, R., *London*, "Victor" Silent Spring Butt Hinge.
 B BROAD & Co., *Paddington*, White Glazed Bricks.
 C B BROAD & Co., *Paddington, London*, Rock-buffed Facing Bricks.
 B DOULTON & Co., *London*, "Peto" Fireproof Flooring.
 B ELLIS, J., & SONS, *Barrow-on-Soar*, Barrow Hydraulic Plaster, Barrow Portland Cement.
 B FLETCHER, T., *Warrington*, Washing Machine.
 B JENNINGS, T., *Lambeth, London*, Hospital Flooring.
 MAJOR, H. J. & Co., *Bridgewater*, Major's Weather-proof Roofing Tiles.
 STERNBERG, J., & Co., *Manchester*, Victory Self-acting Washing Machine, heated by Gas.
 B E. SMITH & Co., *Coalville*, Building Bricks and Terra Cotta.
 C B THOMPSON & Co., *Walworth, London*, Non-poisonous Oxide of Iron Paints.
 B WHITE, W., *Abergavenny*, Impervious Wall Lining.
 B WHITWICK COLLIERY Co., *Leicester*, Building Bricks.

A Deferred by the Judges in Competition for Medals.
 B Submitted by the Exhibitors for further practical trial.
 C We have not yet had sufficient opportunity of testing these exhibits, and they are therefore of necessity deferred for a future Report.

WOLSTENHOLME, J., *Manchester*, The Radeliffe Silent Gas Engine.
 WORTLEY FIRE-CLAY CO., *Leeds*, White Glazed Bricks.
 B WRAGG, T., & SON, *Burton-on-Trent*, White Glazed Bricks.

CLASS II.—SEWERAGE AND WATER SUPPLY.

ADAMS & CO., *Fork*, Automatic Flush-tank.
 ADAMS & CO., *Fork*, Circular Sewer Ventilator and Manhole Cover.
 ADAMS & CO., *Fork*, Automatic Flushing Cistern for Urinals.
 BOWES-SCOTT & READ, *London*, Bower-Barfield Rain-water Pipes.
 DOULTON & CO., *London*, Automatic Flush Tank.
 DOULTON & CO., *London*, Vacuum Water Waste Preventor.
 DOULTON & CO., *Lambeth*, Draw-off Valve for Hot Water.
 DYER, F., *London*, Air-tight Manhole Cover.
 DYER, F., *London*, Tidal Valve.
 FERGUSSON & STARKEY, *Battersea*, Shank's Hot-water Tap.
 B ELLIOTT, EDMINSON & OLSEY, *Manchester*, Cold Metal Double-cone Mechanical Lead Pipe Joint.
 B HUMPHERSON, F., *Chelsea, London*, Quick Turning Bib Cocks for Hot Water.
 B HUMPHERSON, F., *Chelsea, London*, Pipe Joints.
 JOHNSON, WALTER F., *Leicester*, Nixon's Hot-water Range Cock.
 KNOWLES, J., & CO., *Burton-on-Trent*, Hassell's Joint for Stone-ware Pipes.
 KNOWLES, J., & CO., *Burton-on-Trent*, Robins' Joints for Stone-ware Pipes.
 B SWETE, H., M.D., *Worcester*, Safety Anti-vacuum Valves.
 B TROTT, H., *Battersea, London*, Bib-valves for hot water.
 WARNER, J., & SONS, *London*, Combined Range Cock and Safety Valve.
 WARNER, J., & SONS, *London*, "Smeaton's" duplex Waste-not Valve.
 WARNER, J., *London*, Gosling's Ejector Syphon Flushing Cistern for Water Closets.
 D WORSSAM, G. J., & SONS, *London*, "Colebrooke's" Rotary Pump.
 B WRAGG, T., & SONS, *Burton-on-Trent*, Hassell's Joint for Stone-ware Pipes.
 B WRAGG, T., & SONS, *Burton-on-Trent*, Mawbey's Sanitary Pipe Joint.

CLASS III.—HEATING, LIGHTING, AND VENTILATING.

ÆOLUS WATERSPRAY VENTILATING CO., *London*, Æolus Waterspray Ventilator.
 ÆOLUS WATERSPRAY VENTILATING CO., *London*, Æolus Exhaust Ventilator.
 ÆOLUS WATERSPRAY VENTILATING CO., *London*, Æolus Downcast Ventilator.
 ÆOLUS WATERSPRAY VENTILATING CO., *London*, Pollock's Exhaust Ventilator.

B Submitted by the Exhibitors for further practical trial.
 D At the Exhibitor's request this Exhibit has been deferred until after the Exhibition at York.

ÆOLUS WATERSPRAY VENTILATING CO., *London*, Pollock's Downcast Ventilator.
 ÆOLUS WATERSPRAY VENTILATING CO., *London*, Stafford's Exhaust Ventilator.
 ÆOLUS WATERSPRAY & VENTILATING CO., *London*, Ventilating Gas Stove, with brass wire cage.
 B ARDEN HILL & CO., *Birmingham*, Acme Gas Cooker, with Boiler.
 B ARDEN HILL & CO., *Birmingham*, Acme Artizan Gas Cooker.
 B ARDEN HILL & CO., *Birmingham*, Acme Open Gas Fire.
 B ARDEN HILL & CO., *Birmingham*, Asbestos Lump Gas Fire.
 ASHWELL, F., *Leicester*, Otto Gas Engine.
 ASHWELL, F., *Nottingham*, Lancaster Steam Trap.
 ASHWELL, F., *Leicester*, Muffet & Dolson's Currugated Fire-bars.
 ASHWELL, F., *Leicester*, "Shield's" Air Escape Valves.
 B CARTER & LEES, *Oldham*, "Safety" Gas Governor.
 B DAVIS, H. C., & CO., *London*, Gas Bath.
 B DAVIS, H. C., & CO., *London*, Incandescent Open Gas Fire.
 B DAVIS, H. C., & CO., *London*, Metropolitan Gas Cooker, with Boiler.
 B DAVIS, H. C. & CO., *London*, Metropolitan Artizan Gas Cooker.
 B DOULTON & CO., *Lambeth, London*, Bath Heater.
 ELLISON, J. E., *Leeds*, Stevens' Exhaust Ventilator.
 B EWART & SON, *London*, "Hausbedarf" Water Heater.
 B FLETCHER, T., *Warrington*, "Instantaneous" Bath Heater.
 B FLETCHER, T., *Warrington*, Lavatory Spiral Water Heater.
 B FLETCHER, T., *Warrington*, Open Gas Fire.
 B FLETCHER, T., *Warrington*, Asbestos Lump Gas Fire.
 B FLETCHER, T., *Warrington*, Gas Cooker, with Boiler.
 B FLETCHER, T., *Warrington*, Artizan Gas Cooker.
 JOHNSON, W. F., *Leicester*, Imperial Gas Cooker.
 KITE & CO., *London*, Exhaust Ventilators.
 KITE & CO., *London*, Downcast Ventilators.
 KITE & CO., *London*, Lamb's Noiseless Large Volume Fan.
 B PATENT SAFETY GAS STOVE CO., *London*, Gas Cooker, with Boiler.
 B PATENT SAFETY GAS STOVE CO., *London*, Artizan Gas Cooker.
 STIFF, J., & SONS, *London*, "Up-draught" Chimney Cowl.
 B THE GENERAL GAS HEATING AND LIGHTING CO., *London*, "Instantaneous" Bath Heater.
 B THE GENERAL GAS HEATING AND LIGHTING CO., *London*, "New Patent" Open Gas Fire.
 B THE GENERAL GAS HEATING AND LIGHTING CO., *London*, Incandescent Open Gas Fire.
 B THE GENERAL GAS HEATING AND LIGHTING CO., *London*, Gas Cooker, with Boiler.
 B THE GENERAL GAS HEATING AND LIGHTING CO., *London*, Artizan Gas Cooker.
 B WRIGHT & CO., *Birmingham*, Eureka Gas Cooker.
 B WRIGHT & CO., *Birmingham*, Artizan Gas Cooker.
 B WRIGHT & CO., *Birmingham*, Open Gas Fire.
 B WRIGHT & CO., *Birmingham*, Asbestos Lump Gas Fire.

B Submitted by the Exhibitors for further practical trial.

CLASS IV.—PERSONAL HYGIENE, FOODS, FILTERS, AND DISINFECTANTS.

- ARGOSY SILVER CO., *London*, Argosy Silver Plate.
 BARSTOW, W., *Pontefract*, Combination Water Filter.
 B BINNS & ARMITAGE, *Derby*, "Miller's Pride" Oatmeal.
 BOWDEN, W., *London*, Indian and Ceylon Teas.
 B BRADFORD, T., & Co., *Manchester*, Black Diamond Boot & Shoe Cleaning Machine.
 B DALES, J. T., *London*, Porpoise Oil Dubbin.
 B HARRISON, F. J. & Co., *Leicester*, Hydroleino Soap Powder.
 B HARRISON, F. J., & Co., *Leicester*, Hydroleino Disinfecting Powder.
 MAIGNEN, P. A., *London*, Maignen's Apparatus for use in Softening Water.
 B MAWSON & SWAN, *Newcastle-on-Tyne*, Water Filter.
 B MARSHALL BROS., *Glasgow*, Semolina and Farola.
 B PATENT POROUS CARBON CO., *London*, Porous Carbon for Filtering purposes.
 B PAULSON, W., *L.R.C.P.*, *Loughborough*, "Perpetual" Filter.
 RICHARDSON, J., & Co., *Leicester*, Sozophane.
 RICHARDSON, J., & Co., *Leicester*, Sarcosozo.
 RIMMEL, EUGENE, *London*, Toilet Soaps.
 STERNBERG, J., & Co., *Manchester*, Milk and Cheese Tester.
 B THE PURE WATER CO., *London*, Non-alcoholic Aerated Beverages.
 B TURK, R. J., *Kingston-on-Thames*, Cruising Canoe.
 B WENHAM GAS LAMP CO., *London*, Wenham Ventilating Gas Burner.

CLASS V.—MISCELLANEOUS.

- ASHWELL, F., *Leicester*, Woolpert's Air Tester.
 STERNBERG, J., & Co., *Manchester*, Reliance Bronzing Machine.

Several Exhibitors show Stanford's Joint for Stoneware Pipes. For this excellent invention the Medal of the Institute was awarded at the Stafford Congress in 1878, and starred Certificates, equivalent to Medals, have been awarded for it at subsequent Exhibitions. This joint is now so well known and fully appreciated that the Judges do not think it necessary to make any further award for it.

The Cowls and Ventilators of that Class have been deferred for further practical trial, although the Report of the Cowl Committee has not yet been issued, because the investigations of this Committee are now so far advanced that it is anticipated that the Judges will be able to test the Cowls and other similar Ventilators before the next Anniversary Meeting.

- (Signed) W. H. CORFIELD, M.A., M.D., F.R.C.P., *Chairman*.
 H. SAXON SNELL, F.R.I.B.A.
 W. EASSIE, C.E., F.L.S., F.G.S.
 ROGERS FIELD, B.A., M.Inst.C.E.
 ERNEST TURNER, F.R.I.B.A.
 J. WALLACE PEGGS, A.M.Inst.C.E.

B Submitted by the Exhibitors for further practical trial.

SUPPLEMENTARY REPORT OF THE JUDGES ON THE EXHIBITS
 SELECTED FOR FURTHER PRACTICAL TRIAL.

LEICESTER, 1885.

We recommend that the Medals should be awarded to the under-mentioned Exhibitors:—

SILVER MEDALS OFFERED BY THE GAS DEPARTMENT OF THE CORPORATION OF LEICESTER.

1. For the best Gas Stove or Gas Apparatus for Cooking purposes for families, including means for heating a good supply of water.
 THOMAS FLETCHER, *Thymne Street, Warrington*, for large Gas Cooking Stove with Boiler.
2. For the best Gas Cooking Stove or Gas Apparatus for an artizan's family, for at least six persons.
 J. WRIGHT & Co., *Broad Street, Birmingham*, for Eureka Artizan Gas Cooking Stove.
3. For the best and most economical Gas Fire.
 THE GENERAL GAS HEATING AND LIGHTING CO., 66, *St. Paul Street, N.*, for Fibre Asbestos Open Gas Fire.

SILVER MEDALS OFFERED BY EXETER GAS COMPANY.

1. For the best Gas Stove or Gas Apparatus for Cooking purposes for families, including a sufficient supply of hot water.
 THE GENERAL GAS HEATING AND LIGHTING CO., 66, *St. Paul Street, N.*, for Large Gas Cooking Stove with Boiler.
2. For the best and most economical Gas Fire.
 H. & C. DAVIS & Co., 200, *Camberwell Road, S.E.*, for Fibre Asbestos Open Gas Fire.

MEDALS OF THE INSTITUTE.

We recommend that a Medal be awarded to the undermentioned Exhibitor:—

GANDY, MAURICE, *Liverpool*, for Cotton Machine Belting.

This was Exhibited at Dublin, but the testing was not completed in time for the last report.

CLASS I.—

DOULTON & Co., *Lambeth*, for Peto Fireproof Flooring.
SMITH, E. & Co., *Coalville*, for Embossed Tiles.

CLASS III.—

ASHWELL, F., *Leicester*, for Blackman Air Propeller.
THOMAS FLETCHER, *Thynne Street, Warrington*, for Large Gas Cooking Stove with Boiler.
THOMAS FLETCHER, *Thynne Street, Warrington*, for Horizontal Spiral Lavatory Heater.
H. & C. DAVIS & Co., 200, *Camberwell Road, S.E.*, for Artizan Gas Cooking Stove.
GENERAL GAS HEATING AND LIGHTING Co., 66, *St. Paul Street, N.*, for Large Gas Cooking Stove with Boiler.
GENERAL GAS HEATING AND LIGHTING Co., 66, *St. Paul Street, N.*, for Fibre Asbestos Open Gas Fire.
GREENALL, J., *Manchester*, for Steam Washer.
PURDY, W., *Eastwood, Notts.*, for Miners' Safety Lamp.
VERITY, E. & J. M., *Leeds*, for Crabtree's Kitchen Range.
WOODHOUSE & RAWSON, *London*, for their Incandescent Electric Lamp.
J. WRIGHT & Co., *Broad Street, Birmingham*, for Eureka Artizan Gas Cooking Stove.
J. WRIGHT & Co., *Broad Street, Birmingham*, for Lump Asbestos Open Gas Fire.

CLASS IV.—

R. J. TURK, *Kingston-on-Thames*, for Cruising Canoe.

CERTIFICATES OF MERIT.

CLASS I.—

ADAMS, R., *London*, for Side Gussets for Fanlights.
BROAD & Co., *Paddington*, for White Glazed Facing Bricks.
FLETCHER, THOMAS, *Warrington*, for Washing Machine, heated by Gas.
JENNINGS, T., *Lambeth*, for Hospital Flooring.
SMITH, E. & Co., *Coalville*, for Red Building Bricks.
WHITWICK COLLIERY Co., *Coalville*, for Red Building Bricks.

CLASS II.—

ELLIOTT, EDMINSON, & OLNEY, *Manchester*, for Cold Metal Double Cone Mechanical Lead Pipe Joints.
HUMPHERSON & Co., *London*, for Dip Pipe Joint.
TROT, H., *Battersea*, for Bib Valves for Hot and Cold Water.
WRAGO, T. & SONS, *Burton-on-Trent*, for Mawbey's Joint for Stoneware Pipes.

CLASS III.—

ARDEN HILL & Co., *Constitution Hill, Birmingham*, for Lump Asbestos Open Gas Fire.
GENERAL GAS HEATING AND LIGHTING Co., 66, *St. Paul Street, N.*, for Artizan Gas Cooking Stove.
WOODHOUSE & RAWSON, *London*, for their Magnetic Cut Out for Electric Lighting.
J. WRIGHT & Co., *Broad Street, Birmingham*, for large Gas Cooking Stove with boiler.

CLASS IV.—

BINNS & ARMITAGE, *Derby*, for Miller's Pride Oatmeal.
BRADFORD, T. & Co., *Salford*, for Black Diamond Boot and Shoe Cleaning Machine.
DALES, J. T., *London*, for Porpoise Oil Dubbin.
HARRISON, F. J. & Co., *Leicester*, for Hydroleine Soap Powder.
PATENT POROUS CARBON Co., *London*, for Porous Carbon for Filtering Water.

We are unable to recommend the award of the Richardson Medal.

W. H. CORFIELD, M.A., M.D. OXON., CHAIRMAN.
H. C. BARTLETT, PH.D., F.C.S.
F. DE CHAUMONT, M.D., F.R.S.
W. EASSIE, C.E., F.L.S., F.G.S.
ROGERS FIELD, B.A., M.Inst.C.E.
HENRY LAW, M.Inst.C.E.
J. WALLACE PEGGS, A.M.Inst.C.E.
H. SAXON SNELL, F.R.I.B.A.
ERNEST TURNER, F.R.I.B.A.