

The ventilation of the sewers was effected by an immense number of ventilating pipes, one of these being carried up every single house. These conditions were altogether unprecedented, and they could, therefore, hardly judge of the works by the rules applicable in ordinary cases. Moreover, the works had to be carried out with extraordinary rapidity, and at the least possible cost, in consequence of the impoverished state of the town.

The PRESIDENT, in his concluding remarks, stated that when he was a younger man, and engaged upon designing works of sewerage, he had not the advantage of the self-acting flush tank used on the Memphis works, otherwise he should certainly have availed himself of it.

A vote of thanks was then accorded to Colonel Waring for sending his paper.

APPENDIX.

REPORT OF THE JUDGES OF THE EXHIBITION HELD AT EXETER, SEPTEMBER AND OCTOBER 1880.

ALPHABETICAL LIST OF FELLOWS OF SANITARY INSTITUTE.

APPENDIX.

REPORT OF THE JUDGES OF THE EXHIBITION.

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

MEDALS.

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

- CARTER, JOHN, GA, *New Cavendish Street, Portland Place, London, W.*, for Invalid Furniture.
- COLMAN and GLENDEENING, *Chalk Hill Works, Norwich, and 62, St. Martin's-le-Grand, London, E.C.*, for School Furniture.
- HUNT, N., 43, *City Road, Bristol*, for his Patent System of Auto-pneumatic Ventilation.
- MOORE, JOSIAH, *Seckford Works, St. James's Walk, Clerkenwell, London*, for Glass Louvre Ventilators.
- MOSER, L., *Southampton*, for Dry Closet, suitable for Ashes or Disinfecting Powder.
- SANITARY AND ECONOMIC SUPPLY ASSOCIATION, LIMITED, *Gloucester*, for Dr. Bond's Patent Euthermic Ventilating Gas Stove.
- TYLOR J. and SONS, 2, *Newgate Street, London*, for Patent Flushing Rim Lavatory Basin and Apparatus.
- WEBB, H. CHALK, *Worcester*, for his method of impregnating Wood with colours in patterns.
- WILSON ENGINEERING COMPANY, THE, *Pear-Tree Street, Goswell Road, London*, for the Wilson Portable Close Cooking Range.

SILVER MEDALS GIVEN BY THE EXETER GAS COMPANY.

Four silver medals were offered by the Exeter Gas Company for the best Gas Stoves exhibited under the following classes :—

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 Gas Cooking Stove for an artisan's family of from four to eight persons.
3. For the best and most economical Open Gas Fire.
4. For the best heating arrangement for general purposes, among

which are included the best methods for heating baths; we recommend that one of these medals be awarded to the

SANITARY AND ECONOMIC SUPPLY ASSOCIATION, LIMITED, *Gloucester*, for Dr. Bond's Patent Euthermic Ventilating Gas Stove.

We regret, after careful practical trial, that we cannot award Medals for any of the Gas Cooking Stoves or Bath Heaters.

We refer for further practical trial, Messrs. Verity's Open Gas Stove, exhibited by Messrs. WILLEY AND Co.

CERTIFICATES.

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

BIRD, P. HINCKES, 1, *Norfolk Square, London, N.W.*, for Large Legible Spirit Thermometer.

BRANKSEA ISLAND POTTERY Co. (Limited), *Poole, Dorset*, for Stoneware Pipes.

BRITISH SANITARY COMPANY, 205, *Buchanan Street, Glasgow*, for Patent Self-Acting Earth-Closet.

BROCK, WILLIAM, and Co., 177, *Fore Street, Exeter*, for 'Non-Such Adjustable Chair.'

BROCK, WILLIAM, and Co., 177, *Fore Street, Exeter*, for Bed-Rest with Moveable Arms.

CALVERT, F. C., and Co., *Bradford, Manchester*, for Improved Vaporizer for Disinfecting.

CANDY and Co., *Newton Abbot*, for 'Granite Vitrified' Bricks and Paving.

CHORLTON and DUGDALE, 19, *Blackfriars Street, Manchester*, for the 'Sunlight' Stove.

* CHORLTON and DUGDALE, 19, *Blackfriars Street, Manchester*, for Excelsior Patent Spring Mattress.

CHORLTON and DUGDALE, 19, *Blackfriars Street, Manchester*, for Invalid's Adjustable Bed.

COLMAN and GLENDENNING, *Chalk Hill Works, Norwich*, for Patent Automaton Seat for Drapers.

CONSTANTINE, T. J., 61, *Fleet Street, London, E.C.*, for the Devonshire Cooking Range.

CRAIG, J. M., *Kilmarnock, N.B.*, for Buchan's Patent Trap.

* DOULTON, H., and Co., *Lambeth, London*, for Patent Antipercussion High Pressure Draw-off Valves.

* DOULTON, H., and Co., *Lambeth*, for Stanford's Patent Joints for Stoneware Pipes.

GARTON and KING, 190, *High Street, Exeter*, for Vowel E. Bradford's Patent Family Washing Machine.

HANCOCK, F. and C., *Dudley, Worcestershire*, for Dough Kneading Machine.

HANCOCK, F. and C., *Dudley, Worcestershire*, for New Propeller Churn.

* LASCELLES, W., 121, *Bunhill Row, London*, for Concrete Bath in one piece.

* MAIGNEN, P. A., 20 and 23, *Great Tower Street, E.C.*, for Patent Filtre Rapide.

MAIGNEN, 20 and 23, *Great Tower Street*, for 'Bijou' Filtre Rapide.

McCALLUM, J. B., Borough Surveyor, *Stafford*, for Improved 'Non-Absorbent' Tub or Pail Van.

PARKER, J., *Woodstock, Devon*, for Dry-Earth Commode without Separator.

PRITCHETT, G. E., 20, *Spring Gardens, London*, for Corrugated Iron Hot Water Warming Appliances.

PRITCHETT, G. E., 20, *Spring Gardens, London*, for Improvements in Thermometrical and Barometrical Instruments.

SALMON, BARNES and Co., *Canal Head Foundry, Ulverston*, for Revolving Shutters with Patent Balance-Weight Motion.

SHARP, C. H., and Co., 104, *Newgate Street, London*, for Ornamental Inlet Ventilators.

SILICATED CARBON FILTER COMPANY, *Battersea*, for Silicated Carbon Double-Chambered Table Filters.

TYLOR, J., and Sons, 2, *Newgate Street, E.C.*, for Improved Enamelled Iron Slop Sink with Patent Regulator Supply Valve.

TYLOR, J., and Sons, 2, *Newgate Street, London, E.C.*, for Patent 'Waste-not' Regulator Valve.

TYLOR, J., and Sons, 2, *Newgate Street, London, E.C.*, for Improved Full Way Stop Valve.

WILLEY and Co., Gas Engineers, *Exeter*, for their exhibit of Gaseliers and Gas Brackets.

* WIPPELL BROS. and Row, 231 and 232, *High Street, Exeter*, for Moule's Earth Closet.

WIPPELL BROS. and Row, 231 and 232, *High Street, Exeter*, for Ransome's Artificial Stone Air Brick.

WIPPELL BROS. and Row, 231 and 232, *High Street, Exeter*, for Conservatory Boiler, with Hot-water Pipes.

WIPPELL BROS. and Row, 231 and 232, *High Street, Exeter*, for Cottage Range.

WIPPELL BROS. and Row, 231 and 232, *High Street, Exeter*, for Fenby's Patent 'Paragon' Camp Furniture.

WIPPELL BROS. and Row, 231 and 232, *High Street, Exeter*, for Chappuis' Daylight Reflector.

WIPPELL BROS. and Row, 231 and 232, *High Street, Exeter*, for Improved Housemaid's Box with Sifter.

There are two classes of exhibits which we recommend should be excluded from awards of Medals—namely, those which were exhibited at Leamington, Stafford, or Croydon, and to which a Medal was then awarded; some of which we recommend should receive Certificates, and these we have distinguished in the foregoing lists by asterisks; and secondly, objects exhibited or invented by any of the judges themselves, such as Mr. ROGERS FIELD's Self-Acting Flush Tank and Annular Flushing Syphon, exhibited by Messrs. BOWES, SCOTT & READ, Broadway Chambers, Westminster.

DEFERRED FOR PRACTICAL TRIAL.

WALL PAPERS.

WOOLAMS W. and Co., 110, *High Street, London, W.*, Paper Hangings Guaranteed Free from Arsenic.
COTTERELL BROS., *Clare Street, Bristol*, Non-Arsenical Paper Hangings, and Non-Poisonous Colours.

MACHINERY.

CROSLY BROS., *Great Marlborough Street, Manchester*, Patent Otto Silent Gas Engine.

WATER CLOSETS—VALVE CLOSETS.

DOULTON and Co., *Lambeth, London*, Lambeth Valve Closet.
J. TYLOR and SONS, 2, *Newgate Street, London*, Patent 'Clear Way' Regulator Valve Water Closet, with Patent Parallel Pull.

WASH-OUT CLOSETS.

DOULTON and Co., *Lambeth, London*, Flush-out Closet.
BOSTEL, D. T., 8 *Golden Lane, London*, Brighton Excelsior Closet.
WHITE, WILLIAM, 30a *Wimpole Street, London*, Patent Water-Closet Flushing Basin with Valveless Waste-preventing Apparatus.

HOPPER CLOSETS.

DOULTON and Co., *Lambeth, London*, Hopper Closet.
J. TYLOR and SONS, 2 *Newgate Street, London*, Seat Action Waste-preventing Cistern Water Closet.

URINALS.

J. TYLOR and SONS, 2 *Newgate Street, London*, Patent Wash-out Urinal Basin.

SEWAGE TREATMENT.

STEPHAN, J. A., *Rainbow Hill, Worcester*, Carbonised Iron Stone Mound Filters.

WATER SUPPLY APPARATUS.

BEAN, A. T. and W. J., 22 and 23 *Great Tower Street, London*, Patent Flushing Valve and Waste Preventer, and Patent Direct-acting Valveless Waste Preventer.

BALL VALVES.

TONKE, G. T., 62 *Rea Street, Birmingham*, Meakins's Patent Ball Valve.
WILLOUGHBY, J., 11 *Scaton Terrace, Mutley, Plymouth*, Ball Taps.
DOULTON and Co., *Lambeth, London*, High Pressure Ball Valves.
WHITE, WILLIAM, 30a *Wimpole Street, London*, Bib Taps and Ball Valves.

STOVES, ETC.

DOULTON and Co., *Lambeth, London*, Ventilator Tile Stove.
WILLEY and Co., *Exeter*, Verity's Patent Gas Fire.
R. H. GRIFFIN, 40 and 41 *Kirby Street, Hatton Garden, London*, Patent Ventilating and Heating Register Stoves.
A. HUTCHINSON and Co., 3 and 4 *Great Winchester Street, London*, India-rubber Gas Tubing.

FOODS.

FRY, J. S., and SONS, *Union Street, Bristol*, Specimens of Chocolate and Cocoa.

FILTERS.

THE SANITARY AND ECONOMIC SUPPLY ASSOCIATION (Limited), *Gloucester*, Dr. Bond's Patent Regulating Filtering Cistern.

MINERAL WATERS.

CARTER and Co., *Old Refinery, Bristol*, Mineral Waters and other Beverages.
G. H. SKINNER, 13 *North Street, Exeter*, Mineral Waters and other Beverages.

DISINFECTANTS.

RIMMEL, EUGENE, 96 *Strand, London*, Ozonised Preparations.
CALVERT, F. C., and Co., *Bradford, Manchester*, Carbolic Acid and Preparations of it.
JEYES and Co., Jeyes' Perfect Purifier.
SIMPSON, G. D., Seaweed Preparations.
MACKEY, MACKEY and Co., 2 *Bouverie Street, Fleet Street, London*, Disinfectant Preparations.

Until the deferred trials have been made, we are unable to recommend the award of the Richardson Medal.

(Signed)

W. H. CORFIELD (Chairman).
H. C. BARTLETT.
W. EASSIE.
ROGERS FIELD.

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