

LECTURES TO SANITARY OFFICERS.

WATER SUPPLY FOR DOMESTIC USE.

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Delivered 10th October, 1893.

THE plentiful supply of water for domestic purposes of good quality is of paramount importance, as we now know that many diseases, cholera and typhoid fever especially, may be spread by drinking foul water.

As all sources of water supply are derived from rainfall, a short consideration of this interesting subject will be necessary before proceeding to the various sources of supply themselves.

The amount of rainfall varies in different parts of the world, and even in different parts of England. The average rainfall over England may be taken at 30 inches per annum, equivalent to 3,000 tons per acre. In parts of India, however, more than this amount has fallen in one day.

It will be useful and instructive to explain here how rainfall is measured. The apparatus for measuring rainfall is called a rain-gauge, and the size usually adopted is 8 inches in diameter. The most generally useful pattern is made of copper, in two parts, and consists of a lower cylindrical part and an upper deep funnel part, with a strong truly-turned rim of brass, leading by a small pipe into a bottle within the copper cylinder, so placed as to be protected from breakage by frost and from evaporation. A small graduated glass of an area one-tenth of the mouth of the funnel is used to read off the amount of rainfall direct in inches and decimals of an inch.

The rainfall over the British Isles varies considerably, and the best way of studying its distribution is from the map prepared by Mr. J. G. Symons, F.R.S., for the Sixth Report of the Rivers Pollution Commission.

Upon this map rainfall contours or lines of equal rainfall are shown, and the spaces between or areas of equal rainfall are

Sources of Water.

Rainfall Evaporation and Percolation.

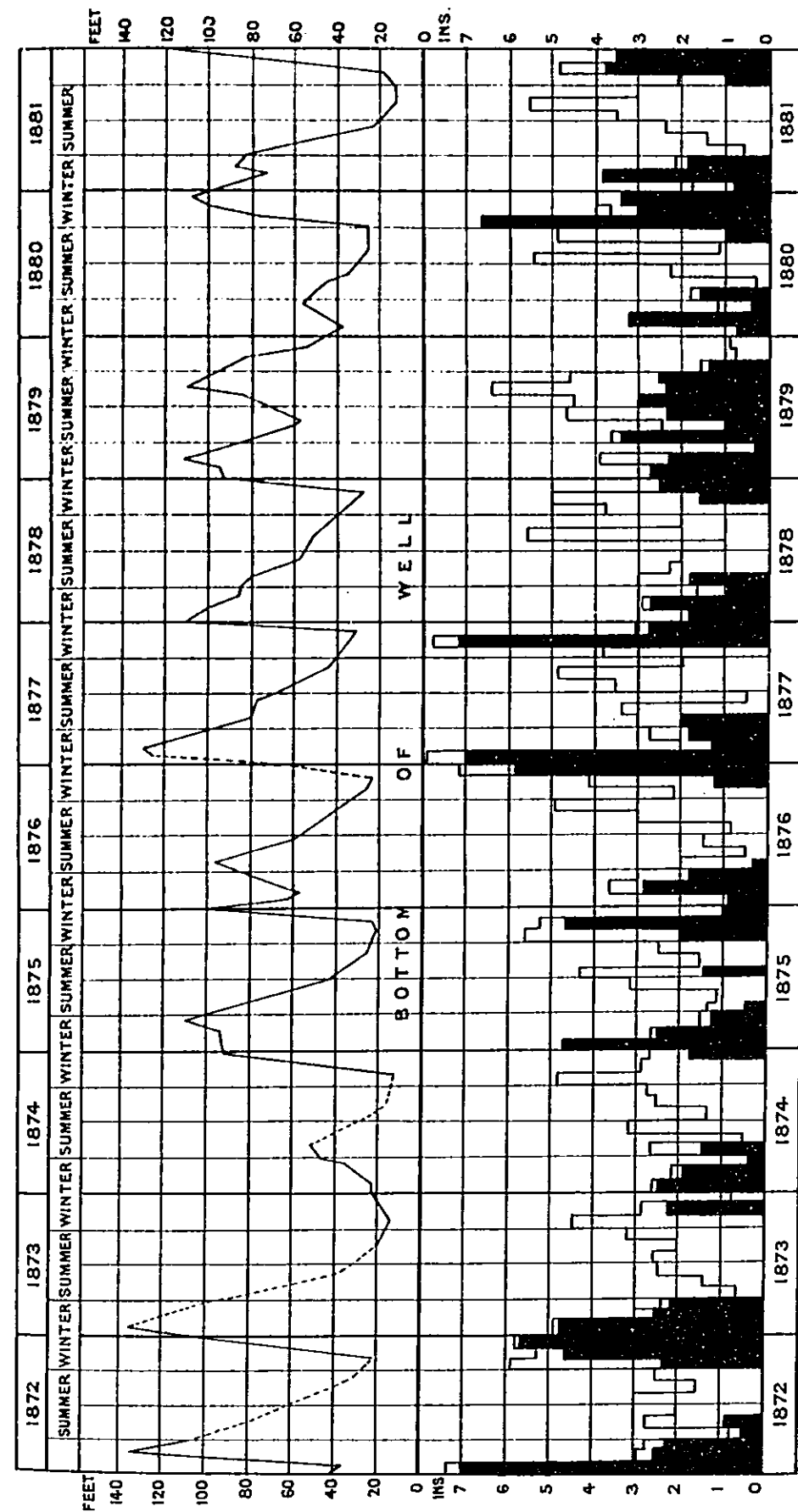


Fig. 1.

SEASONAL VARIATION
OF
FLOW OF UNDERGROUND WATER.

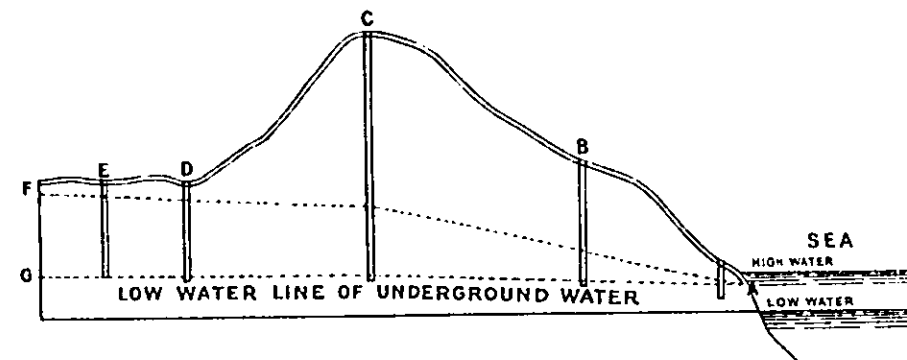
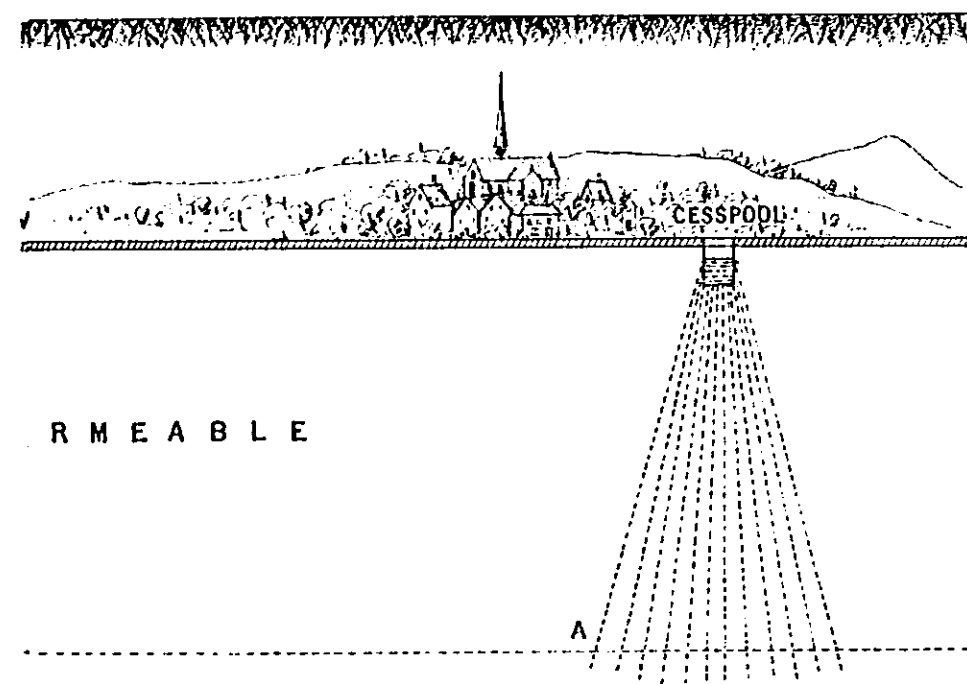
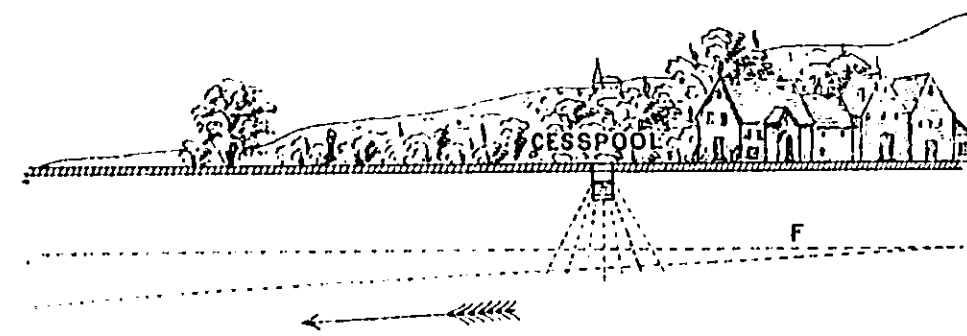


Fig. II.



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J. Wallace Peggs. del^t

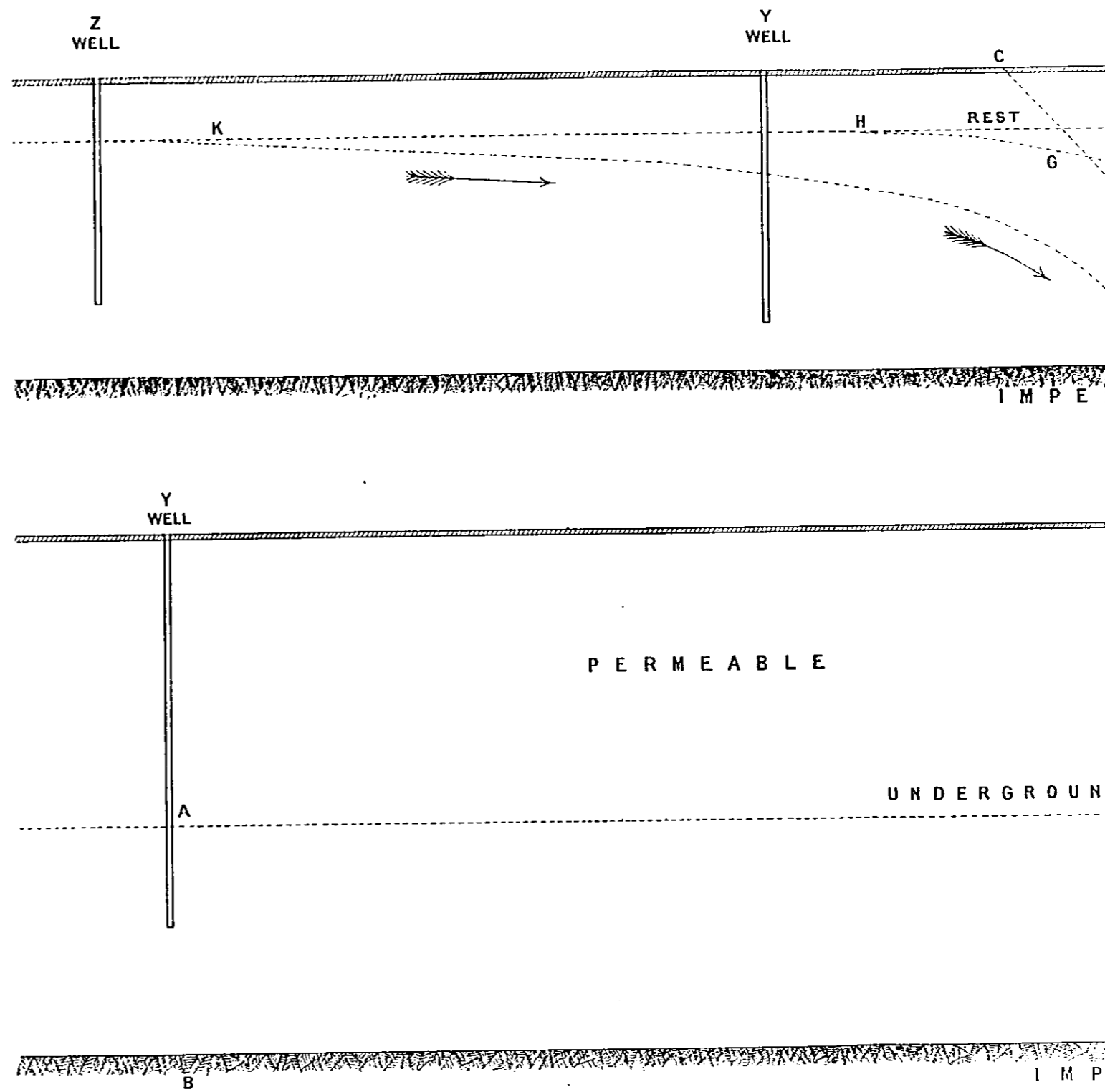


Fig. III.

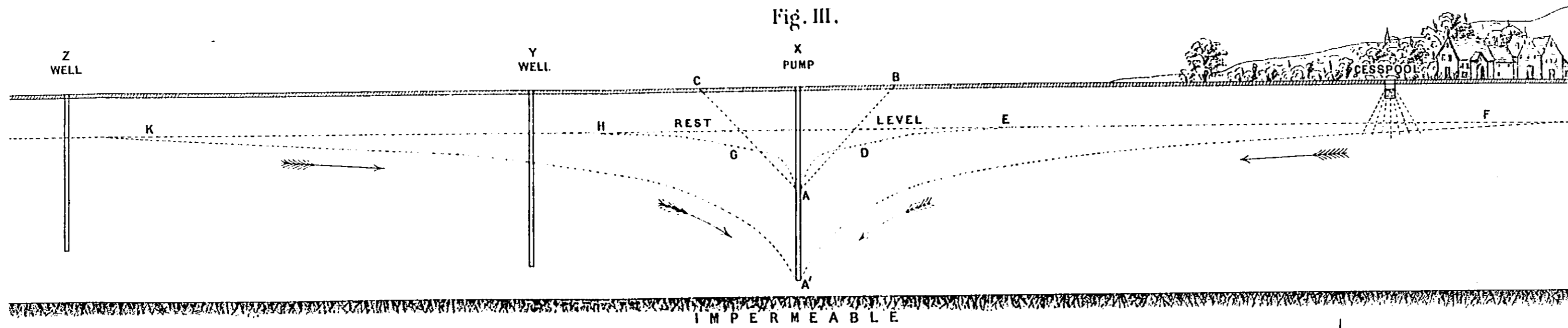
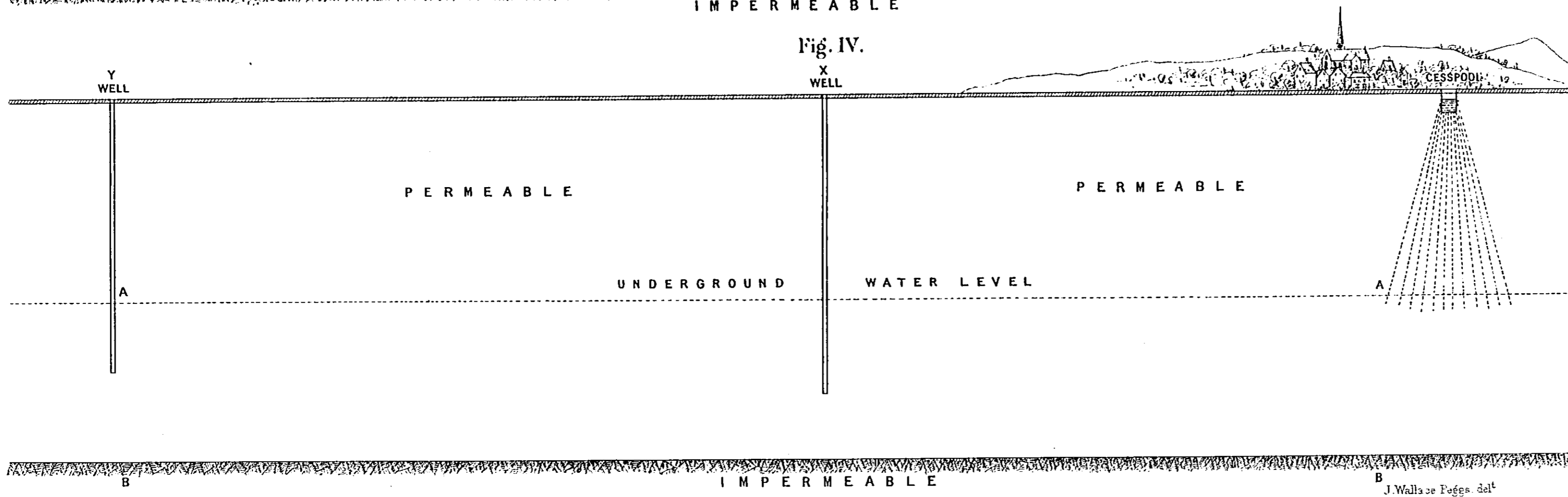


Fig. IV.



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coloured blue. The light blue are the area of light rainfall, and the darker blue tints the areas of heavy rainfalls.

On looking at the map, it will be seen that the rainfall upon the area east of a line from Newcastle to Reading has an average of less than 25 inches. The portion west of this imaginary line has a rainfall of 30 inches and 40, while the Welsh and Cumberland mountains and Dartmoor have 75 inches, and Sty Head Pass in Cumberland has as much as 175 inches.

The amount of rainfall varies also with the seasons. The districts having a low average rainfall, 20 to 25 inches, have the greater part of the rain in summer, and, generally, districts with a rainfall over 30 inches have most of it in winter.

The following is a useful approximate rule.

The fall in the driest year is one-third less than the mean fall.

The fall in the wettest year is one-third more than the mean fall.

Continual evaporation is going on from the surface of land and sea, and this is eventually returned to the earth as rain, dew, or mist. The amount of evaporation depends upon the temperature of the air, the higher the temperature the more the evaporation. It has been stated that from tropical seas 100 inches per annum are evaporated. Evaporation.

The water which falls as rain or snow upon the earth is disposed of in three ways. A certain portion runs off the surface to the streams and rivers, another portion sinks into the ground or percolates and forms the vast "underground waters," of which we shall have something to say later on, and a third portion is evaporated and absorbed by vegetation. Percolation

It has been stated that:—

One-third of the rainfall flows off the surface.

One-third percolates forming the "underground waters."

One-third evaporates.

This, however, is only an approximation to the truth, as the proportions differ enormously in different seasons of the year and under different conditions.

The sources of water supply to which we shall direct our attention are as follows:— The various sources of water supply.

- 1.—Gathering grounds.
- 2.—Streams and rivers.
- 3.—Springs.
- 4.—Wells.
- 5.—Rain-water from roofs.

The waters which drain off uncultivated lands in hilly districts not manured, or only slightly manured, are often impounded, Upland Surface Water.

and the water supplies of some of our large manufacturing towns in Yorkshire and Lancashire form notable examples of such works. For example, the water supplies of Liverpool, Bradford, and Bolton. The city of Dublin is also supplied with water from the Wicklow Mountains, 26 miles distant.

These impounding reservoirs or lakes are formed by building a dam across the neck of a valley suitable to contain a supply of some months even in the driest year.

Peaty matters are frequently present in upland surface water, giving it a decided colour. Filtration through beds of sand is sometimes made use of to remove peaty matters and discolouration.

Waters supplied from natural lakes, such as Glasgow from Loch Katrine 34 miles distant north of the city, may also be considered as upland surface water. This Loch Katrine supply took the place of the much-polluted Clyde water, and the construction of the works was due to the genius of the late J. Frederick Bateman, F.R.S., Civil Engineer.

For engineering purposes in estimating the water supply from a catchment area the least rainfall has to be considered, as this is the crux of the question.

The rainfall which flows directly off the surface forms rivulets, which join to form the streams, which again flow to the river systems.

Streams and Rivers.

The rivers and streams were formerly the usual source of water supply, and London is the most notable example of a city supplied by river water. The city and county of London is supplied by eight water companies, five of which draw their entire supply from the River Thames above Teddington. It has been stated in evidence that during the summer of 1887 more than one-third of the entire flow of the river was taken for the water supply of London.

The water supply from rivers has been abandoned to a great extent, on account of the pollution of rivers by raw sewage, and this brings me to say a few words about the deplorable pollution of many of our beautiful rivers.

Unfortunately, the Public Health Act of 1848 encouraged the emptying of raw sewage into rivers. It is certain that, unless a more workable Act can be obtained, most of our rivers will become not only polluted but will be in many instances a danger to health.

The existing Rivers' Pollution Prevention Act has been adverted to in the late Royal Commission on London Water Supply by Dr. Ashby, Medical Officer of Health for Reading, as "more or less a dead letter."

We have seen already that the source of all water supply is from rainfall. Of the rain descending upon the ground, part percolates into the soil and descends through it to a level where it is held up by an impervious stratum, such as many of the clay beds. The amount of percolation has been measured by what are called percolation gauges, the earliest form being that of Dr. Dalton, of Manchester.

Springs and the flow of underground water.

Extensive experiments have also been made by Sir John Lawes and Sir H. Gilbert upon percolation gauges of an area of $\frac{1}{1000}$ of an acre.

In order to bring before you in a graphic manner the relation between the rainfall and the rise and fall of the underground water, a diagram has been made which is from the one prepared by Mr. Rogers Field and the author for the article on "Water" in "Our Homes,"* and is, as far as the author is aware, the only attempt to show graphically the connection between rainfall percolation and the rise and fall of the underground water.

It is commonly known to those who have to draw water from deep wells by means of a bucket and rope, that they have to wind up more rope in autumn than in winter; or to express this more carefully would be to state that the level of the water in the well is at its lowest in October and November, and then rises rapidly until February and March, when it is as a rule at its highest level, and then it gradually sinks through the summer to the autumn low level.

Referring now to the diagram, Fig. 1, which is drawn out for ten years, it will be noticed that lines divide each year into four parts, and the divisions of winter and summer are also marked. The upper part of the diagram shows the heights of the underground water in the chalk, as measured at Chilgrove, Sussex, by Mr. Woods, and are plotted in feet above the bottom of the well, which is taken as the datum. The lower part of the diagram shows the rainfall and percolation in inches, the percolation amounts being the black portion. The rainfall is from the record kept at Chilgrove, and the percolation in the chalk is from the records kept at Nash Mills, Hemel Hempstead.

Now the first thing which will be noticed on examining the diagram is that the bulk of the percolation is in the winter (except in the year 1879), when the ground is already saturated, and that there is none in the summer, because of the evaporation and absorption by vegetation. The next noticeable feature is that the underground water is highest in the early part of the

* "Our Homes and how to make them healthy." Cassell & Company.

year, January and February, and lowest in October and November, and that it follows the amounts of percolation.

Not only is the level of the underground water rising and falling as we have seen, but it is always moving slowly through the strata containing it with a definite gradient towards certain outlets, sometimes to a river, sometimes to the sea level, the latter case is well shown by the Brighton section, see Fig. II. The general notion prevails that a well has only to be sunk at some desirable spot, and if you are fortunate you find water in some such way as you might find a nugget of precious metal, but a moment's consideration will show that this is not the case. Where water is found by sinking a well you are drawing from the general underground water. This is a very important point, as we shall see further on. The upper and lower dotted lines in the diagram, Fig. II., show the high water and low water levels, from which it will be seen that great seasonal variations exist, the water in the wells B, C, D, E, rising and falling considerably. In the autumn months the underground water level would be along the dotted line on the diagram A, G, but in the winter it would have risen along the line A, D, E, F, the water standing in the wells at a higher level, and the gradient being much steeper towards the outlet A. In chalk districts the seasonal variations are from 50 to 100 feet.

Wells—
Shallow wells,
Deep wells,
Artesian wells,
Tube wells.

In districts where an impermeable stratum underlies permeable or porous strata, such as the gravel "outliers," upon the clay around London, wells sunk into the porous strata will yield water at depths varying considerably according to circumstances. The distinction between shallow wells and deep wells is not very clearly defined, but, speaking generally, wells sunk into superficial beds are called shallow wells, and wells sunk into geological formations and deep beds are called deep wells. Such, for example, as the deep wells in the New Red Sandstone at Liverpool, and the deep wells in the chalk around London.

In some cases, owing to the position of the water-bearing strata, the water rises to the surface, and in some instances considerably above the surface, as at the celebrated well at Grenelle, near Paris, and many in our own country. These wells, the water from which rises above the surface, are called Artesian wells, so named from the province of Artois, where they have been long in use.

Tube wells, or Abyssinian wells, form a simple means of reaching water-bearing strata at moderate depths, and have much to recommend them from a sanitary point of view. They have in many instances yielded good supplies on a small scale.

Rain water collected from roofs in rural districts gives an excellent supply on account of its great softness. It is, how-

Rain-Water
from Roofs.

ever, quite insufficient under many circumstances, but where earth-closets are used it may sometimes be made sufficient. Great care should be taken to prevent leaves, soot, and refuse from entering the storage tank. The best way is to have a rough filter, constructed in two portions, one merely as a settling chamber, and the other a rough filter of small washed stones.

With reference to the quantity of water obtainable from roofs, this is entirely governed by the rainfall of the district in the driest year, and the area of the collecting roof. In the West of England the average rainfall may be assumed as 36 inches, and the fall in the driest year as 24 inches. Taking the loss from evaporation and absorption at two inches, we have 22 inches of rain left as available. In the East of England the average rainfall would be 24 inches, and the minimum 16 inches, and taking a loss of two inches as before, we have 14 inches as the available rain in a dry season.

There is a very simple rule by which the available quantity of rain-water may be calculated approximately. It is as follows: Multiply the area covered by the roof in square feet by the average annual rainfall, also in feet, and divide the result by 100, will give the average supply in gallons per diem for a very dry year.

The next most important point with reference to rain-water collection is to have sufficient storage or a tank of sufficient capacity to tide over the longest droughts. The simplest way is to calculate the capacity of the tank from the roof area, and it has been found by practical experience that two gallons for every square foot of roof area must be allowed for in constructing the tank.

Much interesting and useful information on the collection of rain-water from roofs will be found in a pamphlet by Mr. Rogers Field, International Health Exhibition Handbook, 1884.

As rain-water has the quality of great softness care must be taken not to use any lead pipes or connections in pumps or fittings. Cases have been known of water pollution caused by a piece of lead pipe being used to join the iron suction pipe to the pump barrel, in fact, the ordinary piece of lead pipe supplied with hand pumps.

When water is pumped from a well the effect is first of all to lower the surface of the water in the well, and afterwards to lower the underground water for a distance around the well, and if the stratum is fairly homogeneous this depression will be equal around the well, and will extend in a circle drawn with the well as a centre. In some cases, however, the figure would be more or less irregular and would not be a circle.

This depression has been likened to an inverted cone, as was

Depression of
the Under-
ground water
caused by
pumping.

first pointed out by Robert Stephenson in his masterly report to the Liverpool Corporation in 1850. In the case of wells in the New Red Sandstone, which is fairly homogeneous, this coning would give a fairly correct idea. On referring to diagram No. III., the effect on the surrounding underground water of pumping a well to different levels is shewn by the curved lines. It is quite evident that the straight coned figure originally assumed was not correct.

Area affected
and the influence
of one well upon
another.

It used to be assumed by writers on water supply that the depth of the well was the factor which regulated the area affected, but this is not so. What does affect it is the extent of pumping in lowering the underground water level. This is an important consideration, as the influence of a shallow well may extend much further than a deep well, if more water is pumped from the shallow well so as to lower the water level more. It will be seen, also, from the diagram No. III., that if the extent of the influence of pumping be represented approximately by a circle, the more the water is lowered the larger will the circle be. No general rule can be given as to the distance from the well to which the effect of the pumping extends, as it varies greatly according to the character of the strata and other circumstances.

Leakage from
Cesspools.

In order, however, to give an idea, it may be stated that investigations into various cases in which the distance has been ascertained, appear to shew that under ordinary circumstances it varies from 20 times to 100 times the depression or more, *i.e.*, if the water in the well is depressed five feet by pumping, the distance from the well to which the effect of this pumping extends may vary from 100 feet to 500 feet or more. If the depression is 10 feet the influence would extend nearly twice as far.

The great danger from a sanitary point of view as regards wells is that they may be polluted by sewage, leakage from drains or cesspools. This danger applies more to shallow wells than deep wells. At the same time deep wells are not safe from such pollutions, as shown by what took place at Liverpool in 1872. This is such a striking case that it will be interesting to give a few particulars. The deep well in question is the Dudlow Lane Well, belonging to the Liverpool Corporation, sunk into the New Red Sandstone formation, 443 feet deep, 247 feet being sunk as a well, and 196 feet being the depth of bore hole. The continuous pumping of this well dried all the wells belonging to the houses in the neighbourhood, and these dry wells were afterwards used as cesspools. The consequence was that the water in the deep well became polluted, and five years after the well had been constructed the pollution was so serious that the well had to be disused.

The Liverpool Corporation took measures to induce the Local Sanitary Authority to carry out a system of sewerage, and divert the drainage of the houses from the cesspools, and by these measures the quality of the water in the deep well was so improved that pumping was resumed, and the water from the deep well was again used for the supply of Liverpool.

The recent case at Worthing is another striking instance of the water in a deep well becoming polluted by sewage escaping from leaky sewers and drains.

In diagrams showing the pollution of water in wells by sewage, it is generally indicated by streams of sewage matter issuing from the sides of the well, indicating a direct passage of sewage from drains and cesspools into the well. Although as you are well aware this is sometimes the case, it is by no means the most usual mode of pollution.

The usual cases met with in practice are much less apparent, as the pollution is effected by the sewage passing into the underground water and not into the well direct.

The polluted underground water may reach the well in two ways. 1st—by the natural movement or flow of the underground water. 2nd—by the polluted water being drawn towards the well by the influence of pumping.

The diagram No. IV. has been prepared to show the first-mentioned case, where AA indicates the level of the underground water in permeable strata, BB being impermeable strata holding up the water. A porous cesspool at C is allowing sewage matter to percolate until it reaches the underground water. At X and Y are wells sunk into the underground water.

Now it has been previously explained that all underground water has a slow movement towards some outlet, and it therefore depends which way the underground water is supposed to be moving whether the wells are polluted or not. If the movement is from X to C no pollution takes place unless depression by pumping causes it. If on the other hand the movement is from C to X pollution must take place whether there is pumping or not.

Sending the sewage into a porous cesspool in permeable ground near a river will not prevent the river from being more or less polluted, inasmuch as the underground water will be polluted, and this will flow by its natural movement into the river.

The second case of polluted underground water reaching a well is shown by the diagram No. III. before referred to. If the well is pumped down to A it will not draw the water from beneath the cesspool, but if pumped down deeper to A' it will

influence the underground water to a greater distance, and pollution will be drawn into the well from the cesspool.

Another important consideration will be seen from the diagram, viz., that a well which gives good water when only slightly used may become seriously polluted if drawn upon largely so as to extend its sphere of influence to cesspools which were outside the sphere of influence when only slightly drawn upon; for instance, a well might give quite a good water for the supply of a house where a bucket or hand-pump is used, but if steam-pumping were resorted to for the supply of a village the water might become contaminated.

Composition of
Water from
various sources.

It is not proposed in treating of this part of our subject to go into the question of chemical analyses, but simply into the quality of water as affected by the gathering ground or the strata through which it passes. When rain has descended upon the earth it depends obviously upon the character of the gathering ground and the strata through which it passes for its hardness and impurities. The length of time also in which it is in contact with those surfaces, calcareous and magnesian soils or strata cause water passing over them to be hard.

The evils arising from the use of hard water are very apparent, not only in cooking and washing, but in hot-water apparatus for heating and hot-water supply, and also in steam boilers.

It has been calculated that a saving of £36,000 per annum in soap alone was effected in the city of Glasgow by the introduction of the soft water supply from Loch Katrine.

Water may be softened by distillation, by carbonate of soda, by boiling the water, and by the lime process of Dr. Clark. The first and second methods are effective but too expensive on a large scale. The third and fourth are efficient only with certain classes of water. The fourth, however, is cheap and applicable to large town supplies. Carbonates of lime or magnesia (temporary hardness) can be removed by Dr. Clark's process. The process known as the Porter-Clark process is largely used for softening water for manufacturing purposes, for ice making, and for use in locomotive engines on railways.

The quantity of
water required
for various
purposes.

From a return made to Parliament in 1879 of the water supply of every urban sanitary district, the amount used was shewn to be from five gallons per head per diem to 50 gallons per head per diem.

The quantities of water supplied to various towns is as follows:—

London (average) 31.19 gallons, according to the recent Report of the Royal Commission on Metropolitan Water Supply.

Manchester 21.00, proposed to be 50 to 60 gallons when new works are finished.

Norwich 14.50.

Glasgow 50.00.

Ancient Rome is calculated to have been 300.00 gallons per head per diem.

A supply of from 20 to 25 gallons per head per diem is sufficient for ordinary houses with baths and water-closets, but for horses a separate allowance should be made. If water be required for watering a garden or for ornamental purposes it must be reckoned separately.

In country places if earth-closets are adopted less water would be required, 15 to 20 gallons per head per diem would be ample. In cottages with earth-closets still less supply would be required, and there 10 gallons a head per diem would suffice.

The allowance generally made for various purposes is as follows:—

Domestic	...	...	...	...	9 gallons.
Water-closets	...	...	...	5	„
Baths	...	...	...	5	„
Washing	...	..	...	3	„
Waste	...	...	...	3	„
Town Purposes	...	...	...	5	„
Trades	...	...	...	5	„
				—	
				Total	35 „

By the term constant supply is meant that water is continuously supplied to the house, *i.e.*, that the service pipes to the houses are always kept full under pressure so that water may be drawn by the taps at any time direct from the main.

Constant and
Intermittent
supplies.

By intermittent supply is meant that water is only turned on to the house at stated intervals, necessitating the use of cisterns to store the water.

The chief advantage of the constant system is that the water can be drawn direct from the mains without storage in cisterns, so that the pollution which so often takes place in cisterns can be avoided. This pollution occurs in a number of ways well known to you, viz., the connection of the overflow pipe of the cistern direct with the sewer; by dirt collecting in cisterns; or by rats, mice, or birds. As an instance of the latter pollution, a friend tells me that a bird entered his cistern through the overflow pipe, and the bird died there as it was a covered cistern, and caused pollution to the water. The subsidiary

advantages of the constant supply is that water may be drawn fresh and cool direct from the main. The cost of storage cisterns is avoided, and only flushing cisterns are required for W.C.'s.

Also the water is constantly on all the branch mains in case of fire.

The advantage of the intermittent supply was supposed to be prevention of waste of water, but recent experience has shown that the constant supply is as economical as the intermittent.

The intermittent was formerly the usual method of supply, but the constant supply is now being adopted, and even in London, the most striking instance of intermittent supply, the constant system is being largely introduced.

Supply of water
by meter.

Water meters are in England generally only used for trade and manufacturing supplies, the domestic supply being charged according to the rateable value of the house, with certain extras.

In Berlin and other places on the continent the whole supply is charged for by meter.

Contamination
in reservoirs and
water mains.

Where service reservoirs are in the neighbourhood of towns there is evidently always danger of the water in them being contaminated, and they should therefore always be of covered construction.

In the case of water mains it would at first sight appear that it is impossible for the water in them to become polluted, as if there were a bad joint or hole in the pipe, or even a broken pipe, water would escape under pressure and there would be no tendency for extraneous matter to enter the water main. This is not true even when the pipes are kept constantly full of water, as under certain conditions, which, however, do not often occur, the water rushing past a hole may create an insuction.

In practice, however, even with a constant supply, the pipes are not always kept full of water, as they have to be emptied for repairs and for making new branches, and when emptied an entirely new condition is introduced. A vacuum is often then created, so that there is a powerful insuction into the pipes through any opening there may be.

If the main therefore passes through polluted ground, which is generally the case in towns, polluted matter will be sucked in, and when the water is turned on again into the mains it will become distributed with the general supply.

Many outbreaks of fever have been traced to contamination of the water supply in this way.

Filters

Waterworks filter beds generally consist essentially of a thick layer of sand over coarse gravel, in which porous pipes are laid to convey the filtered water to a storage reservoir. A film of

glutinous silt collects on the top of the sand, which gradually chokes the filter, and this has to be cleaned off at intervals.

Waterworks filters if properly managed are very efficient, but it is very different in the case of domestic filters. These require cleaning and renewal as much if not more than the waterworks filters, but as a matter of fact they do not receive the proper attention, in fact, they are frequently not attended to at all. Consequently, they often collect so much objectionable matter that they make the water passing through them worse instead of better.

This is especially the case when animal charcoal is used, as the pores become clogged with putrescible organic matter, which forms a breeding ground for living organisms.

OBJECTS AND METHODS OF INSPECTION.*

By JOHN F. J. SYKES, D.Sc., M.D., M.O.H. St. PASCAS.

Delivered November 14th, 1893.

In the General Order of the Local Government Board, dated March, 1891, set out in detail and included in the Syllabus of Examination of The Sanitary Institute, will be found enumerated the duties of Inspectors of Nuisances, and the subjects to which they relate. It will not be necessary, therefore, to occupy your time by reciting a long list of subjects for inspection, the principal objects of which are:—

1. The discovery and abatement of nuisances and of sanitary defects for the protection of health.
2. The prevention of the spread of infectious diseases.
3. The supervision of the quality and wholesomeness of foods.

The Inspector is set in motion by—(1) Complaints received; (2) Infectious diseases notified; (3) Instructions to inspect specified streets, &c., from house to house, and (4) Instructions to periodically inspect specified premises.

Method in inspection is important. Always take notes in writing, and record exactly what you find. Avoid all prejudice and the personal equation as much as possible. Distinguish what you find from what is told you, and note by whom you are told. Be exact as to names, places, hours, and dates, and details generally. Cultivate the art of observation and enquiry. Know your subject that you may know what to observe and what to enquire into. I will endeavour to illustrate my meaning by instances of observation and enquiry generally, and then describe more especially the inspection of dwelling places and other premises.

Overcrowding.—This is a constantly recurring nuisance, and in inspecting it is necessary always to ascertain the number of occupants of every room in every sub-let house. It is not always possible to get a correct statement from the occupant of any particular room, but enquiry of another occupier in the same house will frequently elicit not only the number living in a particular dwelling, but the number in the whole house.

* The Lecture was illustrated by diagrams, plans, sections, &c.

Corroboration is valuable in securing accuracy. The number and size of the beds are strong evidence. The size of a room need not always be exactly measured, with a little experience it may be mentally calculated with sufficient approximation for practical purposes. With this object in view the method of calculating area and capacity must be practised. It is well always to notice the number of air inlets and outlets in a room, and the situation and use of the door, window, and fireplace. The open space about the house itself should also be noted.

Smoke also requires special care in observation. For this purpose a diagram of smoke shades is useful, so that an idea of the density of the smoke may be conveyed to others in giving evidence, and as a permanent record. In making observations of smoke the following points must be noted. The date and time of day. The description of the premises upon which the chimney is situated, and the use to which the furnace or fireplace is put. The kind of sky or background against which the smoke is seen issuing. The density and variations in the density of the smoke according to corresponding numbers on the diagram. The duration in minutes of the prevalence of each particular shade of density. Furthermore, you must distinguish smoke from steam, or steam and smoke mixed. If the density and duration of the smoke be sufficient to constitute a marked nuisance, do not fail to enquire who has charge of the furnace at the time. The construction of the furnace and the quality of the fuel used are questions rather for an engineer.

Dangerous Infectious Disease.—In making an enquiry of this kind, in addition to the information contained in the Notification Certificate, the following facts should also be ascertained. Where the clothes are washed; whence the milk supply is obtained; the occupation of the patient; the school, workplace, or office attended, and date of last attendance; the date of the beginning of illness and the appearance of rash (if any); the probable source of infection. (For this purpose you should carry a table of the maximum, minimum, and mean incubation periods of the various diseases.) The room occupied by the patient, whether it is a bed-room or a living-room; other occupants of the room, and the name and address of the nurse or attendant and other duties of the attendant. Precautions taken to isolate the room and the patient, and if improperly isolated whether the medical attendant considers removal to hospital inadvisable, and if so, why? if removed, to what hospital and on what date; if not removed the probable date when disinfection will be required. (A table of the average duration of infectiousness in the various diseases is useful for this purpose. If intimation can be obtained from the medical attendant directly,

or indirectly through the person in charge, this is still more useful.) A record of the sanitary condition of the premises must be made, and the house inspected in detail as to the number of persons occupying each portion of it, their occupation, and the work-place, or school attended. In the case of Small Pox the Vaccination Officer must be notified. If the infectious sufferer be a child notification should be sent to the teacher of the school attended by the patient. The principal points of these details, in addition to the particulars on the Notification Certificate, should be kept consecutively in an Infectious Disease Register so that all essential references to any particular case may be seen at a glance.

Sampling Water.—As another illustration, it is frequently necessary in rural districts to ascertain the quality of the well water. For this purpose a sample of the water must be taken. The best method is to use a Winchester quart bottle, equal to a half gallon, with a ground glass stopper. The bottle should be well cleansed and prepared by being rinsed with hydrochloric or other acid, and then be rinsed several times with water until the drippings are no longer acid to the tongue and taste, and at the time of use, rinsed with the water to be sampled. The bottle should then be filled with the water within an inch or so of the neck, the stopper inserted and tied down securely. Sometimes a luting of linseed meal or clean clay is laid round the stopper; but an india-rubber cap over all is the best. It should then be sealed, and securely packed in straw or hay in a wicker basket for transport.

Sampling Food.—Another instance, under the Sale of Food and Drugs Adulteration Act you must be familiar with the usual procedure. A sample is purchased in the ordinary way by yourself or by an agent. After paying for it, the vendor is informed for what object it has been purchased. Divide the sample into three parts; securely fasten and seal each part and number and letter them, taking note of the number and letter, and of the name and address of the vendor. Offer one of the parts to the vendor, take the other two parts away, sending one to the analyst and retaining the other to be produced in court if a prosecution be necessary. For the purpose of sampling, proper bottles and tins with labels attached must be carried in a bag, which should also contain a special notebook. The quantities necessary to be purchased are about a pint of milk, or a pound of butter, and other substances in proportion, but an ounce or two of condiment is sufficient. In sampling milk or other food in transit it is necessary only to take the sample without dividing it: but, in case of prosecution it is necessary for the consignee to give evidence as to what he had contracted

to buy. Possibly the contract may have been for skim milk, for instance.

Unsound Food.—The method of procedure in the case of unsound food must not be confused with that of adulterated food. The unsound food may be an animal intended to be prepared for food, or any article, solid or liquid, intended for the food of man. Be quite satisfied in the first place that it is intended for food, and in the second that the food is unsound, and then seize it at once. After seizing it, if still in doubt the opinion of a colleague at hand may be asked, or the Medical Officer of Health be consulted. The food or a sample of it, if bulky, is then taken to a Justice who will condemn it, order its destruction, and issue a summons when necessary. It should be prevented from being used as food by saturating it with common carbolic acid or creosote, and then be buried or burned.

House Inspection generally.—In considering the inspection of premises it may be well to first give a general idea of the inspection of an ordinary house. First observe, externally, the access of light and air, the open space around, whether it is properly levelled and drained, and the guttering and roofing. Note any animals kept and their condition, any offensive accumulation, ditches or stagnant water, and whether any offensive trade is carried on or any effluvia is produced. Within the house, note any dampness, especially in garret or basement, the absence of any dry area or damp course, whether the basement is impervious and if there is any ventilation below the floor, and any underground sleeping room. In staircases, passages, and rooms, observe the soundness and cleanliness of the surfaces generally. In the last, the structural and decorative condition of the surfaces, the cubic capacity, and the number and ages of the occupants, and the purposes for which occupied. The points of lighting and ventilation must also be attended to. In reference to water-closets their number, situation, ventilation and cleanliness should be noted, the efficiency of the apparatus and the mode of water supply. The soundness, disconnection and ventilation of the house drain, the disconnection of waste pipes, overflow pipes, rainwater pipes, and the situation of gullies, the absence of receivers and cesspools. The wash-house floor should be smooth, sloped and drained, and the waste cut off. It should be ascertained whether the water supply is constant or intermittent, and whether from a main or from some other source, and the capacity, situation and cleanliness of the cisterns must be noted, and the course of the overflow and supply pipes therefrom. The ash receptacles will require attention, and, where dry systems of excreta-removal prevail, also the ash or dry earth-closet.

Before speaking of premises in detail it will be well to give a few approximate definitions, the legal definitions are generally lengthy and complicated, but the following are useful to the practical understanding of certain points. Places of human habitation not only include places used for dwelling purposes, but also those used for other purposes of habitation. A dwelling is generally held to be so constituted by the act of sleeping, or of passing the night with intent to sleep. A building is a structure partly or wholly enclosing cubic space, and more or less permanently attached to the soil. A house not only includes a dwelling house, but also any building capable of being used for habitation. The curtilages and appurtenances attached to a house, wholly or partly used as a dwelling, are generally held to form part of the house.

Dwellings.—In classifying dwellings they may be regarded as movable or fixed. Movable dwellings include canal boats on water; tents, vans, and sheds on land. Fixed dwellings include hop and fruit pickers' dwellings, cottages and huts, and larger houses.

Canal Boat Dwellings.—In inspecting a Canal Boat the points to be noted are:—Is it a Canal Boat? With the exception of ships registered under the Merchant Shipping Act any vessel, however propelled, for the conveyance of goods along any inland water way within the body of a country is a Canal Boat. It must be ascertained whether it is used as a dwelling, and, if so used, if it is registered. If registered, the word "registered," the name and place of registration, the registered number and the name of the boat should be found conspicuously painted on both sides of the cabin on the stern, so as to be plainly seen from both sides of the canal. If properly lettered and marked the master's certificate should tally, and state the maximum number of persons allowed in the dwelling. It should be ascertained that the dwelling is properly used. A cabin is not allowed to be occupied as a sleeping place at any time by a male over 14 and a female above 12 years, unless husband and wife. A cabin occupied as a sleeping place by husband and wife is not allowed to be occupied as a sleeping place by a male above 14 and a female above 12. There must be 40 cubic feet of free air space for each person under 12, and 60 cubic feet above 12. In a "fly" boat (worked by shifts) 180 cubic feet is required for two persons occupying a cabin at the same time as a sleeping place. These conditions are modified slightly for boats built before 1878. In inspecting a Canal Boat for registration the following conditions must be looked for:—That there is at least one dry clean weather-proof cabin in good repair. That the capacity of the after-cabin be 180 cubic feet

and the fore-cabin 80, if intended to be used as a dwelling. That sufficient means are provided for ventilation in addition to the door. That adequate and convenient sleeping accommodation is fitted or constructed. That one cabin is fitted with a suitable stove and chimney. That a suitable tank for storing at least three gallons of water is provided. And, that if used for offensive cargo, a cabin used as a dwelling is separated by two bulk-heads, four inches apart, of which that next the cabin is water-tight, and the space between, open to the air and supplied with a pump. There are one or two other less important requisitions as to narrow and wide boats. A "narrow" boat is less, and a "wide" boat more than 7 feet 6 inches across. Any structural alteration voids the certificate. For the purpose of inspection the hours are from 6 a.m. to 9 p.m.

Movable Dwellings.—In reference to tents, vans, sheds, and similar structures it must be noted whether they are kept in a cleanly and habitable condition. That no nuisances arise in connection with them, and that no infectious disease is nursed therein. Under the Housing of the Working Classes Act, 1885, section 9 (2), the sanitary authorities may make bye-laws for this class of dwelling, and it is generally provided that they shall not be erected within 100 yards of a street or dwelling-house.

Hop Pickers' Lodgings.—The points for inspection and observation here are:—That the habitation is clean, dry, and weather proof, and is ventilated and lighted. That a floor space of 15 square feet is allowed each occupant, children under 12 being allowed one-half. That clean straw or other suitable material is supplied for bedding, and renewed when required. That the beds occupied by adults of different sexes are separated by a screen. That there is a sufficient supply of good water. That there is a separate cooking place for every 15 persons. That there is adequate privy accommodation for each sex. That immediately before occupation the premises and accessories have been thoroughly cleansed, and during occupation are kept cleansed.

Vegetable and Fruit Pickers' Lodgings require similar regulation and supervision.

Cottage Dwellings.—These are mainly to be found in rural districts but exist also in towns. Dampness, pollution of surface and of subsoil water are the great troubles here, and may be briefly considered under the heads of construction, refuse removal, and water supply. In addition to the general state of repair they must be kept wind and water-tight. In a water-logged soil subsoil drainage may be necessary. A ventilated

space between the floor and the earth, or a basement layer of concrete, are things not generally found. There should be an absence of earth or refuse matters against the outer walls, and a dry space, or area, 3 feet wide from 6 inches below the level of the floor upwards may be required. If then the walls require support this should be filled in with rubble, or the area may be arched over in places. Of course in new cottages a proper damp course would be inserted above ground level. In some cases it is desirable also to pave the surface outside for a distance of a few feet from the walls. Proper guttering and piping to carry off the rain water must be provided. The windows should be made to open properly, and the place where the food is kept should ventilate into the open air. The slop water should be cast into a proper sink, with the waste cut off and delivering into a culvert or drain which should deliver upon the land at a distance. There should be no sunken pit for excreta or refuse, but a proper ash or earth closet above ground, and the receptacle should preferably be movable rather than fixed, but in any case it should be impervious. Cesspools should on no account be permitted near a cottage. The object of cesspools is to intercept and retain solid excreta, but solid excreta should not be permitted to enter drains unless there is a proper sewerage system, and then cesspools are not necessary. In a rural district with available land, cows, pigs, and other animals should be kept at some distance. The manure should be heaped, away from the vicinity of the dwelling and of the well, and the surface of byres should be properly drained on to land, not into a stream or pond. The water used in cottages may be either rain water, surface water, well water, or high pressure water from the main. The surface from which the rain water is collected, and the receptacle in which it is kept should be observed to be cleanly and constructed of proper material. Surface water unless it comes from good grass land, moor land, or high uncultivated land is objectionable. Well water, if derived from a shallow well is open to suspicion, and its pollution is one of the commonest troubles of cottage dwellings. The only remedy then is to sink a properly steyned deep well, or to lay on a high pressure water supply from a main.

Larger Dwelling Houses.—Turning now to the larger type of dwelling houses, it is not necessary to take into consideration the duration of tenancy, whether nightly, weekly, monthly, or quarterly, but the external relative position and the internal relative occupation are most important points.

The External Relative Position of Dwelling Houses influences the number of fronts, whether they be 1, 2, 3, or 4. Taking the ordinary dwelling house to be constructed in rectangular form, houses are generally described as detached, semi-detached,

or terrace houses. These have respectively four, three, and two fronts, the two fronts of the last being on opposite sides. If these houses back immediately upon one another they form respectively semi-detached, four-group, and back-to-back houses, possessing three, two, and one front respectively. In a four-group house the two fronts, unlike those of the terrace house, are on contiguous sides, just as in corner houses formed at the return angles of a block of terrace houses. In the house with one front there can be no perflation of air, and in a house with two fronts on contiguous sides only a partial and diagonal perflation. This applies to four-group houses and corner terrace houses. The construction of back-to-back houses of more storeys than one intensifies their objectionableness, as the room below ventilates into the room above by means of the open staircase, and this is not even overcome by the enclosure of the staircase and the insertion of windows, if the house be occupied by several families acting independently. But a still greater drawback to this class of house is the absence of proper curtilage or open space for the deposit of refuse receptacles and for other domestic purposes.

The Internal Relative Occupation of Dwelling Houses is dependent upon whether they are constructed for one or many tenants, and they may be classified somewhat in this manner:—

1. The house constructed as one dwelling, that is a self-contained house, which has been altered into a house let in separate lodgings (in which class of house the underground lodging or dwelling is generally found), or into the common lodging house.

2. The house constructed in separate dwellings, known as the common-stair house or model dwelling house, and which is large or small according to whether it is constructed as a common-stair block or a cottage block.

3. The house constructed as a common dwelling for many occupants, examples of which are the model common lodging house, and the shelter or refuge.

4. A special kind of dwelling house constructed to harbour animals and lodge human beings, namely the stable dwelling.

Houses Let in Separate Lodgings, Tenements, or Dwellings require continuous supervision by the sanitary authority. To facilitate this they are in many cases registered under bye-laws. The special point to be noted is that under these bye-laws the landlord is made liable for structural repairs, the maintenance of the drainage and means of ventilation, and the cleansing of all parts of the premises used by two or more tenants, whilst the tenant is held responsible for the

management and cleansing of his own rooms, and the parts of the premises used solely by him. In addition to the ordinary conditions and requirements of a dwelling house the points to be observed during inspection are:—That at least 300 cubic feet of air space is allowed each person in a sleeping room, and 400 in a room used for sleeping and any other purpose. Children under 10 years of age are generally allowed half this amount, although children are far more susceptible to the effects of want of fresh air than adults. That every sleeping room is perflated daily by an open window for an hour or two, whenever possible. That the cisterns are kept cleansed. That one closet at least is provided for every 12 persons, and is kept clean and in good order and repair. That the ash receptacles are dry and clean, and in good repair, and contain no wet refuse. In reference to the state of cleanliness of the rooms, that the refuse matters, liquid and solid, are removed daily and the receptacles cleansed, and that the surfaces are kept clean, and the floors swept daily and washed weekly. As regards the cleansing of the house, this is done annually by whitewashing or washing where required, and renewing the paint when and where necessary. That no animals are kept so as to render the premises filthy. That yards and open spaces are clean and in good order, and the former properly paved and drained. Lastly, that the presence of infectious sickness is immediately reported.

It is generally in this class of house that *underground dwellings* exist, that is to say, any underground room let separately as a dwelling, the floor of which is more than three feet below the adjoining ground level. In inspecting such a dwelling to ascertain whether or not it is illegally occupied, it should be noted whether there is a bed in the room, and whether the room is let separately from any other room in the house, except an adjoining front or back underground room. It must be ascertained whether the cellar is seven feet high and whether it is three feet above the nearest ground level. If there be outside, and along the entire frontage, an open area two feet six inches wide, and whether the surface is six inches lower than the floor level. Whether the room is effectually drained. If there be the use of a closet and ash receptacle, and whether the room has a proper fire-place and flue, and an external window nine feet square, the upper half opening, or in the case of a back cellar half this size. Remember that steps for access to the cellar, and other means of access to any dwelling above, are allowed in or over the area provided they do not block the window. In addition to these requirements, in London there are others, although it is in the power of the sanitary authority

to modify them. The principals are, that there is a proper damp course in the walls, that the area is properly paved, that the space beneath the floor (if any) is ventilated into the outer air, and that the room is secure against the rising of exhalations. It is extraordinary that the last two, especially the former of the two, should have been omitted from the requirements of the Public Health Act, 1875. Even now there is no provision, as to the other side of a back area, that is to say beyond three feet of the house, to prevent the erection of high structures that may block out practically all light and air from the dwelling. This is a condition of things very commonly found in the metropolis.

There is another kind of lodging-house very similar to those just mentioned, namely, *seamen's lodging-houses*, and the Sanitary Authority of a seaport town, with the sanction of the Board of Trade, may make Bye-Laws and Regulations for licensing, inspecting, and for the sanitary condition of these. It is unnecessary to give such conditions in detail. They may be sufficiently appreciated from what has been already said in reference to other lodging-houses.

The Common Lodging House invites our attention next. This is a house kept for profit, in which sleeping and other accommodation is provided, more or less in common, for strangers, at a charge of a few pence per night. Here upon inspection you will ascertain, firstly, that the conditions of wholesomeness needed for dwelling houses in general are observed, and, secondly, that it possesses certain conditions in particular. You will look first for the words "Registered Common Lodging House" affixed outside, and inside for a copy of the Bye-Laws with respect to Common Lodging Houses affixed in a suitable and conspicuous position. In each room you will observe that a placard is affixed in a conspicuous position, stating the number and description of the room, and the maximum number of lodgers authorised to be received into it at one time. With regard to the furniture, that the number of beds and utensils sufficient for the maximum number of persons allowed is supplied in each room. With reference to the separation of sexes, it must be seen that only one male occupies each bed, that no male over ten years of age occupies a room used by females, that no female occupies a room used by males above ten, excepting a room set apart for married couples, in which case you will see that a wooden partition is fixed from six inches above the floor to a sufficient height above each bed, so as to act as an effectual screen. As to cleansing, note that the beds and bedding are kept clean and wholesome, and aired daily, vessels cleansed daily, all floors and stairs swept daily and washed weekly, and all

surfaces of walls, furniture and effects kept cleansed, and that cleanliness and ventilation generally are maintained. That sufficient water is supplied for washing in basins, and that these as well as the towels are kept clean. That the sanitary conveniences, ash receptacles, and open spaces, are kept clean and in good order. When inspecting a house *for registration*, in addition to the ordinary conditions of wholesomeness, it should be specially observed that the ventilation is good, and that the bed rooms have proper ventilators and are above ground, that the kitchen accommodation is proper and the water supply sufficient, that there is one closet for at least every twenty lodgers, that there are sufficient ash receptacles, and that the washing accommodation is sufficient and separate from the bed rooms.

Another class of common dwelling, that has been brought more into prominence by the Salvation Army, is *night shelters* and *refuges*. Air space, ventilation, and cleanliness are much to be desired where human beings are closely congregated in buildings put to such use. The conditions are those of common lodging-houses, in fact rather more acute, but not being kept for profit it has been ruled by the Courts that they cannot be registered as such.

Common lodging-houses have hitherto been ordinary dwelling-houses converted to that use, and in the majority of instances are ill-adapted for the purpose. Glasgow led the way in the matter of improvement, but recently some improved models have been erected in London and are worthy of a visit, namely, the common lodging-house of the London County Council, Parker Street, Drury Lane, and Lord Rowton's Lodging-House, Bond Street, Vauxhall, the latter is even better appointed than the former.

In a similar manner the conversion of ordinary dwelling-houses constructed for one family to the use of many has been partly superseded by a number of large buildings specially constructed in separate dwellings. The conditions of construction required in this class of buildings are not even now settled, although there are certain points that are desirable. The limitation of the height of the building to about five storeys. The proper lighting of such dwellings, so that above lines, drawn from the bases of the rear and fore fronts, at an angle of 45° upwards, that is, half-way between the vertical fronts and the horizontal ground level, there should be no obstruction to light and air. All the habitable rooms should possess through ventilation. The minimum height of rooms nine feet, and the minimum area 144 square feet for living, and ninety-six square feet for sleeping rooms. On each floor there should be sufficient and proper

water supply, and a sufficient and proper number of water-closets. In new dwellings to be erected the latter should be cut off by a disconnecting lobby open to the external air, and they are best situated one above another in a tower. This is important, because such buildings are constructed on the flat, often in such a manner that the apartments communicate directly or indirectly with each other, having no ventilated staircase, well to separate them as in an ordinary house. The different manner in which various dwellings of this type are occupied render it difficult to generalise as to the exact details of arrangement and construction, but the addition of a balcony or open space, attached to each dwelling, or on each floor, for exclusive use, is a great advantage sanitarily.

It is held by many that these large blocks of dwellings are objectionable, and that smaller houses or cottage blocks should be erected. The immense value of land in the centre of cities militates against this, but outside this area a number of cottages or smaller dwellings for one, two, or three families have been erected in such a manner as to dispense with a common staircase. There is no reason why the Bye-Laws for houses let in lodgings should not be applied to dwellings of these last two types if necessity demands, but the occupants are generally of a provident and careful class, and a resident caretaker exercises constant supervision.

Stable dwellings of old date, and some of more recent, are in the majority of cases extremely objectionable in construction and arrangement, and you will experience some difficulty in remedying the objectionable conditions. However anxious you may be to remove gullies from outside dwelling houses you will find these invariably to exist inside stables, and the rooms over the stable are mostly entered by a staircase through the stable, so that dwelling over a stable is only an apology for dwelling in a stable. The effluvia produced by the animals, and by their excreta (which is frequently allowed to accumulate), ascend. The closet is usually situated under the stairs, and is seldom lighted or ventilated. Frequently the back dwelling rooms in the loft above have no proper skylights. These are matters which will require your attention to remedy, by proper outside manure-bins, and proper light and ventilation to closets and back rooms, and cleanliness generally. The ventilation of the stable may frequently be improved by the insertion of air bricks in the back wall, for stables are generally in the same condition of relative position as back to back houses, having only one front.

It is almost unnecessary to advise you that when you discover dwelling houses grossly unhealthy on account of bad construc-

tion and repair, or grossly obstructive dwellings, or an area containing these, it is your duty to report the fact to the Medical Officer of Health for the purpose of putting the Housing of the Working Classes Act into force.

I must now direct your attention to certain classes of professional and trade premises. *Schools* require inspection from time to time. The area, space, and ventilation of the class rooms, and the situation and condition of the W.C.'s and drainage are points to be observed in all schools, whether day or residential. In the latter the ordinary sanitary conditions of a dwelling house are required in addition.

Factories, premises upon which steam, water, or other power is used for manufacturing, are under the supervision of the Factory Inspectors. But the supervision of *Workshops* now falls within the duties of Sanitary Inspectors. A workshop includes any premises, room, or place within which any manual labour is exercised for the purpose of gain, and over which the employer has a right of access. You will observe that the use of power converts the premises into a factory. A *Domestic Workshop* is a workshop in a private house, room, or place that is used as a dwelling, and in which the only persons employed are members of the same family dwelling there. Bakehouses and Laundries are also regarded as Workshops. A *retail bakehouse* is any bakehouse or place in which the bakings are sold by retail in a shop or place occupied together with a bakehouse. It does not include wholesale bakehouses or baking factories. There is no special definition of a laundry.

You have power to inspect by day any place believed to be a *workshop*, and by night when any person is believed to be employed there, night meaning from 9 p.m. to 6 a.m. The points to be observed in inspecting are:—That the place is in a cleanly state. That the walls and tops of rooms, passages, and staircases are limewashed, or, if painted and varnished every seven years, are washed at least within every 14 months, and at other times when necessary for health. That no effluvia arise from excremental sources, or other nuisances dangerous to health. That it is not overcrowded, and is so ventilated as to render all impurities generated therein harmless as far as practicable. That if any child under 14, young person 14 to 18, or woman over 18 years, be employed it be reported in order that the Factory Inspector may be informed. That lists of out-workers are properly kept, notes of these should be taken. That the sanitary conveniences are sufficient, especially with regard to number, and that there is separate accommodation for each sex. It is common to find these in the form of latrines, trough-

closets, and urinals, and it should be ascertained that they are properly attended to at frequent intervals.

In regard to *Bakehouses* they are not only subject to the requirements of workshops generally, but there are certain special requirements of which particular note should be taken. They are:—That all the inside walls and tops of rooms, passages, and staircases are either painted or varnished or lime-washed. That, if the former, painted in oil of three coats and renewed every seven years and washed every six months; if the latter, limewashed at similar half-yearly intervals. That no place on the same level, which is part of the bakehouse premises, is used as a sleeping place, unless completely partitioned off, and possessing a window nine feet square, one-half opening. That there is no receptacle for excreta, or liquid, or solid refuse, within or communicating with the bakehouse, and that the cistern supplies no closet directly, and generally that the bakehouse is not unfit for use or occupation. If unfit the bakehouse cannot be compulsorily closed, but the offender can be fined until it be brought into conformity with the requirements of the Act. In London and other large towns numbers of bakehouses are situated underground, a condition of things which entails the enclosure of cellars, yards, and areas, the consequent exclusion of light and ventilation, and the placing of refuse receptacles and solid refuse as well as drain openings within or near the bakehouse, from inability to place them elsewhere. Unfortunately the regulation of bakehouses appears only to have contemplated the protection of the health of the workers therein, and to have overlooked the protection of the food, especially after it has left the ovens.

Slaughterhouses.—In inspecting slaughterhouses it is necessary to ascertain that the slaughterhouse premises have been licensed by the authority, and that the license has been duly registered. You will then proceed to ascertain that water is supplied to every animal in a lair previously to slaughtering. That there is proper means for securing the head of cattle to avoid suffering. That the ventilation, drainage, and water supply is in proper order and efficient. That the quantity of water especially is sufficient for cleansing purposes. That the walls and floor are in good repair so as to prevent absorption, and are cleansed within three hours of slaughtering. That all the internal surfaces are hot limewashed every three months. That no dog is kept in the slaughterhouse, nor any other animal except such as is intended for slaughter. Dogs are specially excluded because they harbour a tape worm (*tania echinococcus*) the cystic form of which (*echinococcus hydatid*) becomes parasitic in both ruminants and man. That animals are kept no longer than is

necessary, and only in the lairs. That non-absorbent vessels with tight covers are provided and cleansed, and that all refuse matters are placed in them forthwith and removed every 24 hours. Similarly that all skin, fat, and offal are removed within the same period. In inspecting slaughterhouses previous to registration for the purpose of granting a license certain other points must be observed, namely: That the premises are not within 100 feet of any dwelling house, and are open to the air on two sides. That the floor of the slaughterhouse is not below the level of the ground, and that the approach is not through a dwelling house or shop, and not inclined more than one in four. That there is no room or loft over. That an ample receptacle for water is provided, the bottom of which is not less than 6 feet above the floor level. That there are means of thorough ventilation. That the floor is well paved with impervious material sloped towards a properly-trapped gully. That the inside walls are covered with a smooth impervious material to a sufficient height, say 5 or 6 feet. That no possible source of effluvia communicates with the slaughterhouse, and that every lair is properly drained, paved, and ventilated, and has no habitable room over.

Dairies, Cowsheds, and Milkshops are controlled under Orders of the Local Government Board, dated 1885 and 1886. These Orders have been made under the Contagious Diseases (Animals) Act, 1886, and it is compulsory for Dairymen to be registered and for the Sanitary Authority to keep a register. Furthermore, new dairy premises must be constructed to the satisfaction of the Sanitary Authority, and old buildings cannot be occupied unless they provide for the health of the cattle, cleanliness of the vessels, and the protection of the milk. An infected person, or one who has been in contact with an infected person, is not permitted to take part in the business. No receptacle for excreta may communicate with a dairy building, nor may the building be used for sleeping, or other improper purpose, and swine are not to be kept in it, and the milk of a diseased cow suffering from pleuro-pneumonia, cattle plague, or foot-and-mouth disease, is not to be used for human food, nor, unless boiled, for the food of animals. This Order makes it permissive for the Sanitary Authority to make Regulations, and in such Regulations the points usually provided for, and that will require the attention of the Sanitary Inspector, are:—That the *Cowshed* is sufficiently lighted. That the ventilation is thorough, and preferably by louvred ventilators inserted in a lantern roof. That each cow is allowed 800 cubic feet of air space, or 600 with perfect ventilation, any height above sixteen feet not being taken into account. That each cow has a superficial

space of eight feet by four, or two cows in one stall eight feet by seven. That the shed is properly paved with impervious material, sloped to a channel terminating at a trapped gully situated outside where practicable. That a properly covered tank, kept cleansed, and containing at least twelve gallons of water for each cow, is provided, the bottom being at least six feet from the floor, and the overflow disconnected. That each stall is provided with a water trough of impervious material, supplied by a proper pipe, and emptying by a proper waste. That the walls, doors, etc., are covered with an impervious material to a height of five or six feet. That impervious receptacles properly drained are provided outside the cowshed for grains and also for dung, and that they are not kept inside. That the upper part of the inside surface is cleansed and lime-washed every six months, and the lower five or six feet as frequently as necessary. That the floors and troughs are cleansed twice daily with water, the dung and offensive litter removed, and that all milk utensils are scalded or steamed as frequently each day as necessary.

With reference to *Dairies*, the lighting and ventilation must be sufficient and thorough, the inner surface of the walls of impervious material to a height of 5 or 6 feet, the floor properly drained and sloping to an opening leading to a properly trapped gully outside; for water, a properly covered tank, periodically cleansed, and of sufficient capacity, must be provided, the overflow discharging into the open; the upper parts of the buildings must be cleansed and lime washed, the lower parts of the walls, fixtures, and floors must be cleansed, and the milk utensils scalded or steamed as frequently as may be necessary to keep them clean. In *milk shops* it should be noted that the fixtures are kept in clean condition, that the milk utensils are thoroughly cleansed with boiling water or steam as frequently as may be necessary, and that the water supply is pure. To prevent infection or contamination it should be seen that immediate notice is given of infection amongst the employes or their families. In case of infection, all milk and utensils should be immediately removed from the infected building and thoroughly cleansed, and not replaced until the building itself has been thoroughly disinfected and cleansed. Offensive effluvia should be guarded against by providing that no milk or utensils are kept in any place where they are likely to arise.

Offensive trades and nuisances are dealt with in other lectures, therefore I will conclude with a few words as to equipment. It is useful to carry official visiting cards, and also a small official certificate of appointment and power of entry bearing the seal of the authority, although it may be rarely

required; also a few forms for taking verbal complaints when on duty, upon which should be entered the date, the name and address of the complainant, the subject and locality of the complaint, and your own signature. These can be entered in the complaint book at the office subsequently, and be careful to preserve these forms, as well as all letters of complaint, to defend yourself against any possible charge of spite or excess of duty. Also forms for enquiring into infectious cases, forms for the inspection of dwelling-houses, for underground dwellings, &c. These, probably, you will find already drawn up for you by the Medical Officer of Health, and the various office books necessary will also be arranged by the Clerk to the particular Authority in conjunction with him; but you will always carry with you a pocket note book, and from it transcribe your daily work into your diary or journal. You will also require certain appliances. For testing drains: odour tests, in bottles or tubes; smoke tests, cases or a machine; exploratory tests, tools and labourers for opening up; elastic plugs for the hydraulic or water test; and a level for gradients. For measurement: a foot rule, a long tape measure (one chain or 66 feet), measuring rods (5 or 6 feet laths, marked to feet and inches). For smoke, a diagram of numbered shades. For meat and other food, perhaps a lens. For sampling, bottles, tins, &c., a special note book, and a bag. For disinfection, vaseline for metal surfaces, gummed paper for chinks, brown paper for fire-places, pans for sulphur or bleaching powder. The Authority to be properly equipped must provide certain accommodation, an infectious hospital, an ambulance, disinfecting vans, a disinfecting chamber and destructor furnace, and a temporary shelter; also an infectious and a general mortuary, a post-mortem room, and a Coroner's court.

Fully equipped in knowledge and appliances, it remains with you to perform your duties to the Public, the Authority, and the Medical Officer, faithfully and discreetly, combining the *suaviter in modo* with the *fortiter in re*.

REPORT OF A SPECIAL COMMITTEE OF THE INSTITUTE

On the Quantity of Water Required to Flush a Water-Closet, and on the Regulations Restricting the amount to Two Gallons.

Adopted by the Council, Nov. 1st, 1893.

Your Committee have to report, with reference to the question of the regulations under the Metropolis Water Act, 1871, restricting the quantity of water discharged from flushing cisterns for closets, that they have had before them, and considered in their bearing on the point, the following papers:—

1. The Metropolis Water Act, 1871.
2. The Report of the Commission appointed by the Board of Trade in 1872, and the evidence given before that Commission.
3. The Regulations made August, 1872, by the Board of Trade, under the Metropolis Water Act, 1871, which were based on this Report.
4. The Regulations in force in other large towns.
5. The correspondence on the subject from the Vestries of St. Giles, Islington, Paddington, Shoreditch, Marylebone, and St. Saviour's, Southwark.
6. The Correspondence from the seven associated Water Companies and from the Kent Waterworks.

The Committee have also attended at Deptford and at the New River Head, and witnessed demonstrations given by the Kent Waterworks Company and by the seven associated Water Companies. The Committee have further arranged and carried out a series of over 800 experiments, specially directed to the question under consideration.

In order to come to a reliable conclusion, it is, of course, essential, as pointed out in the communication from the Water Companies, to attend to the following matters:

- (a). The suitability of the flushing-cistern and water-closet on which observations are made.
- (b). The proper arrangement of the two, with regard to flush-pipe and connections.

These matters were carefully observed in the experiments made by the Committee.

The points that have to be considered with regard to the efficacy of a certain amount of flushing-water are:—

First.—The effect of the flush in removing the matters deposited in the closet basin, from such basin and the trap connected with it.

Second.—The effect of the flush in clearing the drain.

Third.—The effect of the flush in clearing the disconnecting trap.

Description of experiments. The general arrangements are shown in the sketch at the end of the Report, marked E.

The special experiments for this purpose, alluded to above, were arranged as follows (see also Sketch plan):—

A series of drains was laid 50 ft. in length, partly pipes and partly half-pipes or open channels, of the following sizes and gradients:—

4 in.	1 in 30	6 in.	1 in 20
"	1 " 40	"	1 " 40
"	1 " 75		

At the head of each drain was fitted a simple short hopper basin of a good type, with an "S" trap having a 2-inch seal, leading with a bend into the drain, the top of the closet basin being 2 ft. 3 in. above the drain. A good Siphon Waste Preventer, discharging two gallons in 5 seconds and three gallons in 7 seconds, was placed 4 ft. 3 in. above the closet basin, and connected to the basin with a 1½ in. flush-pipe, care being taken that there should be a clear waterway of this diameter from the cistern to the basin; at the lower end of each drain a disconnecting trap was fixed—two different forms of trap in ordinary use were employed at each gradient. Six hundred experiments were made in this series. Tables A and B and Diagrams A and B show the results of these experiments, first with a two-gallon flush, secondly with a two-and-a-half-gallon flush, and thirdly with a three-gallon flush, the quantity of water in each case being carefully measured.

A further series of drains was laid 26 ft. long, partly pipes, and partly open channels, of the following sizes and gradients:—

4 in.	1 in 40	6 in.	1 in 40
------------	---------	------------	---------

The same closet and waste preventer were used, and the experiments were conducted, as in the longer drains, with two different forms of trap, 240 experiments being tried.

From this description it will be observed that these experi-

ments have been conducted under certain conditions only, with respect to water-closet, flush pipe, application of flush, and gradient of drain. Time has not sufficed to extend the experiments beyond the scope so far adopted, but the Committee think that further experiments on a more extended-scale, would be of service in elucidating the entire question.

The method of conducting the experiments was to place in the basin three lumps of artificial excreta (a mixture of soft soap, cocoa fibre, and clay) and five pieces of paper (newspaper). The contents of the flushing-cistern were then discharged, noting in each case how much material was left in the closet trap, how much in the drain, how much in the disconnecting trap, and how much passed through. All the materials were removed before the next experiment.

Method adopted

With reference to the materials used in the experiments, it should be observed that they would be more easily flushed out than actual healthy excretal matter.

The results of the experiments are as follows:—

Dealing first with the closet trap, it will be seen from the tables and diagrams that when a large number of experiments is tried (as in the present case, where the average is taken over the whole of the experiments), a two-gallon flush does not always clear the material from the trap, even of a good type of short hopper closet, which clears more easily than any other form of closet. With a two-gallon flush the average amount retained is 5 per cent., and with a three-gallon flush the trap is practically cleared, the retention being only 1 per cent.

Closet Trap.

Dealing next with the drain and disconnecting trap, the experiments show little difference between the 4 in. and 6 in. drain and trap, so they may be considered together.

In the case of a drain 50 ft. long, which is an ordinary length when the drainage from the back of the house is taken to a disconnecting trap in front of the premises, and at a gradient of 1 in 40 (3 in. in 10 ft.), a steeper gradient than is commonly used in practice, it will be seen from the Tables B and C and Diagrams B and C,

1. That as regards the drain with a two-gallon flush the retention is 21 per cent., and with a three-gallon flush it is 3 per cent.

Drain.

2. That as regards the disconnecting trap with a two-gallon flush the retention is 36 per cent., and with a three-gallon flush 26 per cent.

Disconnecting Trap.

In the case of a drain 26 ft. long, which is a common length

DIAGRAM C
ILLUSTRATING TABLE C

4 inch drain 26 ft long

Gradient of Drain
1 in 40

Amount
of
Flush
Water

2
Gallons

2½
Gallons

3
Gallons

Per Centage	In Closet Trap	In Drain	In Disconnecting Trap	Cleared
90				
80				
70				
60				
50				
40				
30				
20				
10				
	5	1	24	70
90				
80				
70				
60				
50				
40				
30				
20				
10				
	2	0	24	74
90				
80				
70				
60				
50				
40				
30				
20				
10				
	1	0	18	83

DIAGRAM D
ILLUSTRATING TABLE D

6 inch drain 26 ft long

Gradient of Drain
1 in 40

In Closet Trap
In Drain
In Disconnecting
Trap
Cleared

Per Centage
90
80
70
60
50
40
30
20
10

5 4 28 63

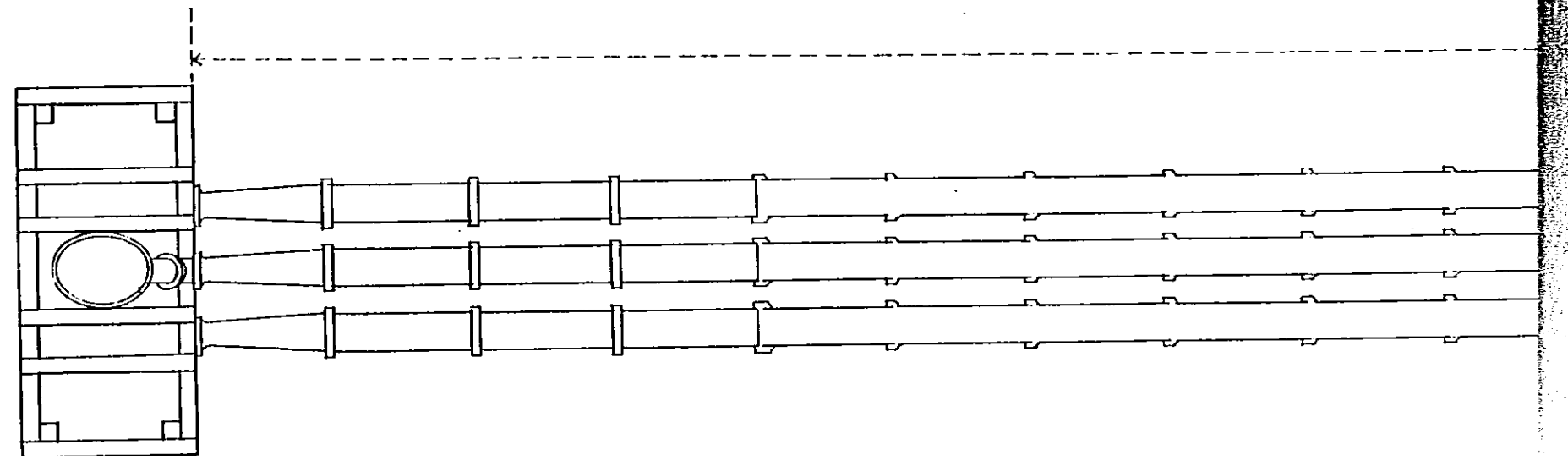
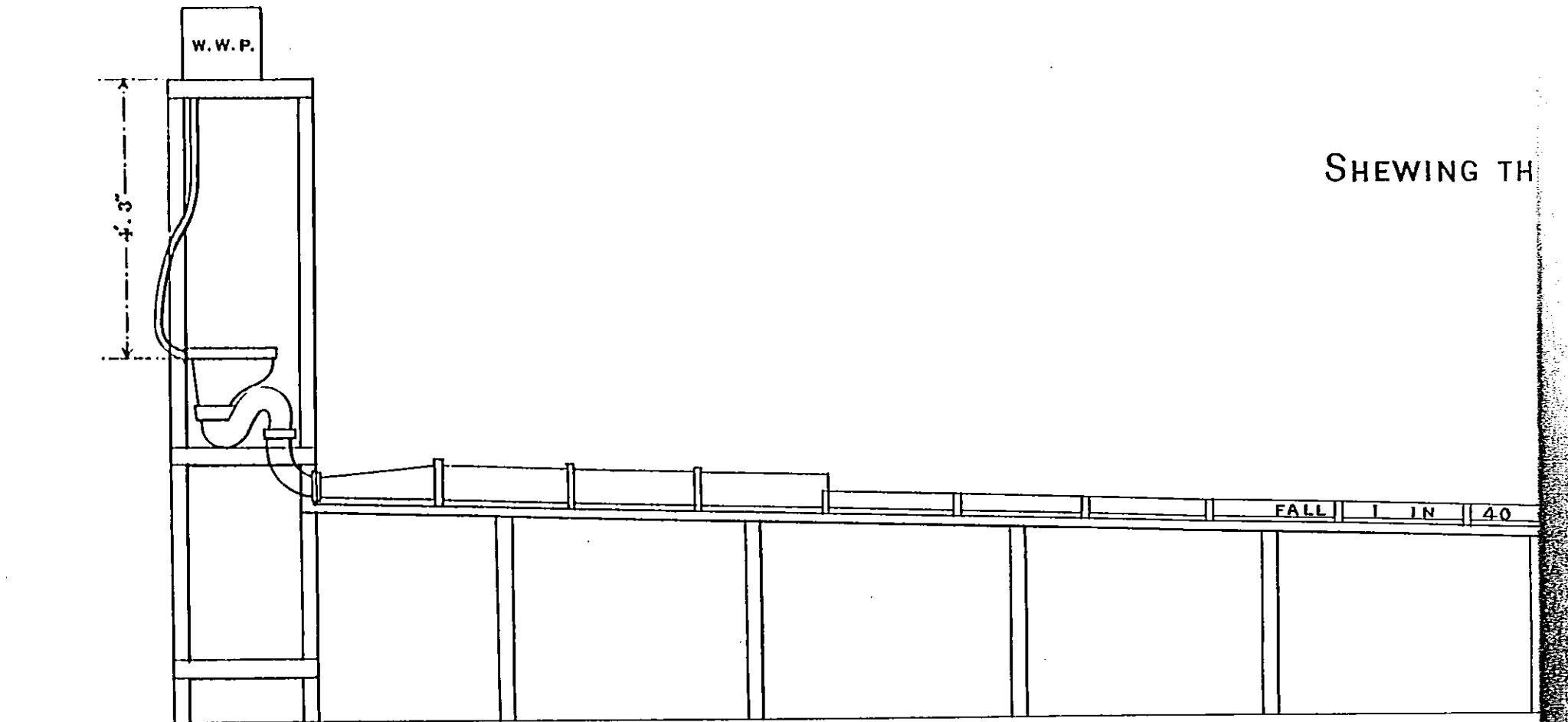
90
80
70
60
50
40
30
20
10

2 1 27 70

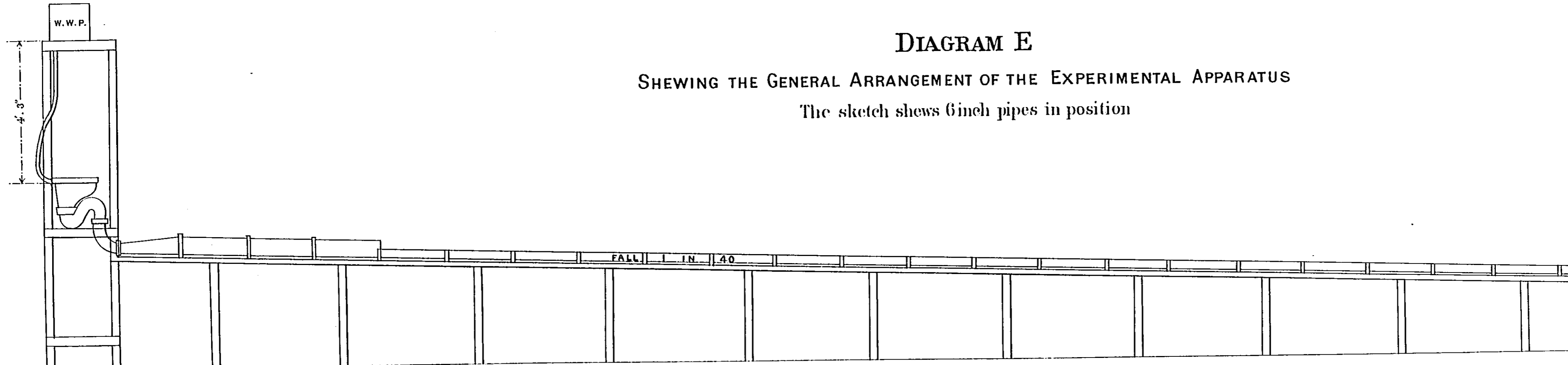
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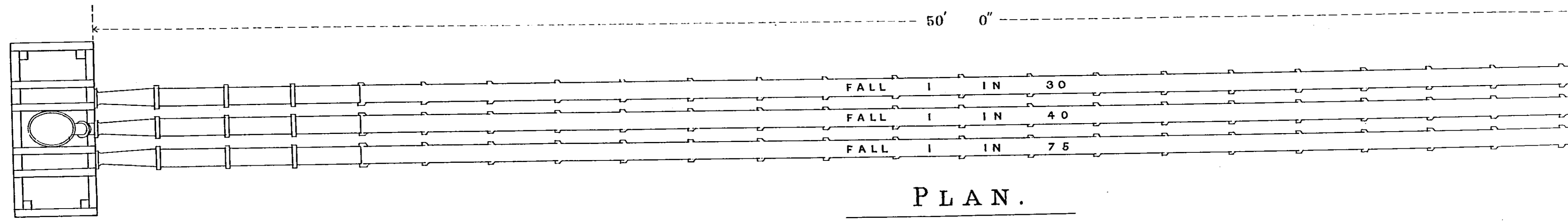
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ELEVATION.



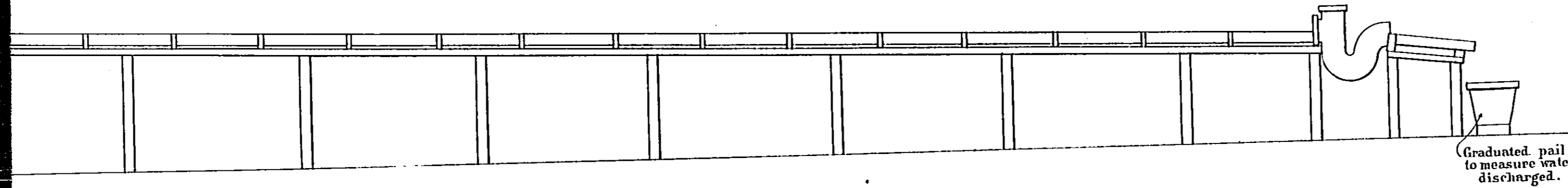
PLAN.

DIAGRAM E
 SHEWING THE GENERAL ARRANGEMENT OF THE EXPERIMENTAL APPARATUS
 The sketch shews 6 inch pipes in position

DIAGRAM E

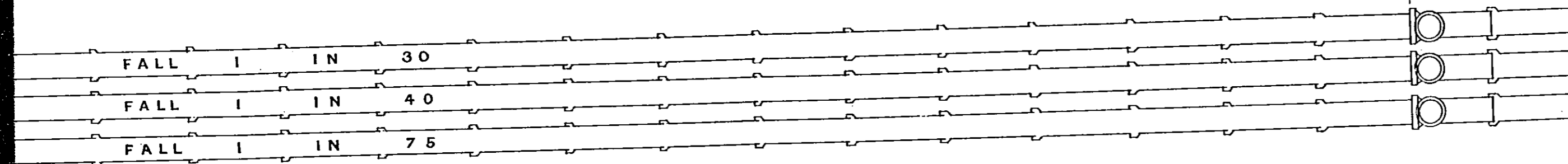
GENERAL ARRANGEMENT OF THE EXPERIMENTAL APPARATUS

The sketch shews 6 inch pipes in position



ELEVATION.

50' 0"



PLAN.

III. As the Council is aware the thirteen Exhibitions which have been held by the Institute during the past sixteen years have given this Committee in their capacity as judges exceptional opportunities of forming an opinion upon Flushing Cisterns and Closets, inasmuch as nearly every variety of apparatus has come under their notice, and has been subjected to a uniform system of tests. The opinion they have formed is that the limit of the quantity of flushing water to two gallons is very undesirable for any kind of closet, and altogether prevents the use of a number of excellent forms of valveless closet, which are in accordance with the By-laws made by the London County Council under the Public Health (London) Act, 1891.

IV. The Committee are of opinion that on sanitary grounds it is essential that a minimum quantity of flushing water should be specified, as the regulations at present in force, which specify a maximum only, would allow the fixing of cisterns holding much less than two gallons.

V. They are also of opinion that it is desirable, in order to prevent waste of water, that a maximum should also be specified.

VI. With regard to the quantity, the Committee are of opinion that two gallons is not sufficient for a minimum, and certainly not for a maximum. It is therefore desirable that the regulations should be altered.

VII. The Committee are of opinion, both from long practical experience and after careful consideration of the results of the experiments described in this Report, that the minimum quantity of flushing water should be fixed at three gallons.

VIII. The Committee are of opinion that the maximum should not be less than three-and-a-half gallons.

IX. It is important for practical reasons that the words "capable of discharging," which occur in the present regulation, should be altered, and they would suggest that Clause 21 of the Regulations under the Metropolis Water Act, 1871, should be altered to read—

"So constructed, as to discharge not less than three, nor more than three-and-a-half gallons of water at each flush."

ERNEST TURNER,

Chairman of the Committee.

E. WHITE WALLIS, *Secretary.*

Oct. 30th, 1893.

TABLE A.—Showing Results of 360 Experiments with 4-inch Drain Pipes and Channels. Drain 50 ft. long.

Amount of Flush Water.	Gradient of Drain, 1 in 30.				Gradient of Drain, 1 in 40.				Gradient of Drain, 1 in 75.			
	Percentage of Total Materials.				Percentage of Total Materials.				Percentage of Total Materials.			
	Retained.				Retained.				Retained.			
	In Closet Trap.	In Drain.	In Disconnecting Trap.	Cleared.	In Closet Trap.	In Drain.	In Disconnecting Trap.	Cleared.	In Closet Trap.	In Drain.	In Disconnecting Trap.	Cleared.
2 Gallons.	5	11	43	41	5	27	37	31	5	26	52	17
2½ "	2	2	27	69	2	9	38	51	2	8	64	26
3 "	1	0	23	76	1	1	25	73	1	3	46	50

TABLE B.—Showing Result of 240 Experiments with 6-inch Drain Pipes and Channels. Drain 50 ft. long.

Amount of Flush Water.	Gradient of Drain, 1 in 30.				Gradient of Drain, 1 in 40.			
	Percentage of Total Material.				Percentage of Total Material.			
	Retained.				Retained.			
	In Closet Trap.	In Drain.	In Disconnecting Trap.	Cleared.	In Closet Trap.	In Drain.	In Disconnecting Trap.	Cleared.
2 Gallons	5	9	33	53	5	14	35	46
2½ "	2	1	20	77	2	4	25	69
3 "	1	0	20	79	1	4	27	68

TABLE C.—Showing Result of 120 Experiments with 4-inch Drain Pipes and Channels. Drain 26 ft. long.

Amount of Flush Water.	Gradient of Drain, 1 in 40.			
	Percentage of Total Materials.			
	Retained.			Cleared.
	In Closet Trap.	In Drain.	In Disconnecting Trap.	
2 Gallons.....	5	1	24	70
2½ "	2	0	24	74
3 "	1	0	16	83

TABLE D.—Showing Result of 120 Experiments with 6-inch Drain Pipes and Channels. Drain 26 ft. long.

Amount of Flush Water.	Gradient of Drain, 1 in 40.			
	Percentage of Total Materials.			
	Retained.			Cleared.
	In Closet Trap.	In Drain.	In Disconnecting Trap.	
2 Gallons.....	5	4	28	63
2½ "	2	1	27	70
3 "	1	1	21	77

EXPLANATORY NOTE.

The desirability of altering the Regulations made under the Metropolis Water Act, 1871, so as to allow a larger quantity than two gallons of water to be used for flushing water-closets, was brought before the Local Government Board by several Metropolitan Sanitary Authorities, from Nov. 1892 to May 1893, and the matter was referred by the Local Government Board to the London County Council. The County Council applied to The Sanitary Institute for an opinion upon the question before replying to the Local Government Board, and as the proposition was of considerable sanitary importance, the Council of the Institute thought it desirable to carry out some special experiments on the subject and record the results for the general information of those interested in the question. The report containing these records is given in the preceding pages, and a copy was forwarded to the London County Council. After receiving this report and making some further enquiries, the County Council in December last sent in an expression of opinion to the Local Government Board that the Regulations made under the Metropolis Water Act, 1871, should be altered, and that every water-closet flush cistern should be so constructed as to be capable of discharging three gallons of water at each flush. This recommendation was referred back to the County Council by the Local Government Board as not being within the purport of the Regulations referred to, which have for their object the prevention of waste, misuse or contamination of water. The County Council have therefore slightly modified the wording, and have agreed on the recommendation of their Public Health Committee, to make application to the Water Companies to amend the Regulations in the direction required.

THE SANITARY INSTITUTE.

FOUNDED 1876. INCORPORATED 1888.

PARKES MUSEUM, 74a, MARGARET STREET, LONDON, W.

EXAMINATIONS IN SANITARY KNOWLEDGE FOR LOCAL SURVEYORS AND INSPECTORS OF NUISANCES.

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The great and increasing importance of the duties devolving upon Local Surveyors and Inspectors of Nuisances, in connection with the various Acts relating to Public Health, Drainage and Water Supply, the Sale of Food and Drugs, &c., led The Sanitary Institute of Great Britain in 1877 to establish Voluntary Examinations, to appoint a Board of Examiners, and to grant Certificates of Competency in Sanitary knowledge.

The Sanitary Institute, in which the older body was incorporated in 1888, is continuing this important work.

The Examinations are arranged in two grades, and are intended to enable Local Surveyors and Inspectors of Nuisances, or persons desirous of becoming such, or of obtaining the Certificate of the Institute, to prove their competency on the subject of Examination. Many Boards and Corporations require Candidates, when making applications for appointments, to produce a certificate of this kind. A register of successful Candidates is kept at the Offices of the Institute, and a copy will be forwarded to Local Boards and Sanitary Authorities on application.

The Local Government Board have approved of The Sanitary Institute as a body, whose certificate, that a person has by Examination shown himself competent for the office of Sanitary Inspector, under the Public Health (London) Act, 1891, shall be sufficient for the purposes of the requirements in Section 108⁽²⁾ (d) of that Act.

Up to December 31st, 1893, 89 Examinations had been held—33 for Local Surveyors, and 56 for Inspectors of Nuisances. 2579 Candidates had been examined, 244 as Local Surveyors, and 2335 as Inspectors of Nuisances; of these 1498 passed the Examinations and received Certificates, 118 as Local Surveyors, and 1380 as Inspectors.

In order to make the Examinations for Inspectors more accessible to

persons residing in the country, the Council now hold periodical Examinations in various centres, in addition to the Examinations held in London, provided that at least 20 Candidates send in applications for Examination. These Examinations are carried out in the same way as the Examinations in London, and no distinction is made in the Certificates granted.

Each Examination occupies a portion of two days. On the first day the Examination of Surveyors occupies six hours—viz., usually from 11 a.m. till 2 p.m., and from 3 till 6 p.m., and consists of written papers only. Inspectors of Nuisances have three hours' written Examination on the first day. On the second day the Examination for each class is *visá voce*, with one or more questions to be answered in writing, if deemed necessary.

REGULATIONS.

Every Candidate is required to furnish the Board of Examiners with satisfactory testimonials as to age and personal character, and to give two weeks' notice previous to presenting himself for Examination. He must be able to write legibly and spell correctly, and possess a fair knowledge of arithmetic, so that he may be able to prepare a report on any subject connected with his duties, creditable to himself and to the Authority employing him.

No one under 21 years of age is admitted to the Examinations.

The fees payable for the Examination are as follows:—

As Surveyors, £5. 5s. As Inspectors of Nuisances, £3. 3s.

But when the Examinations are held in Provincial Towns in or out of England, £1. 1s. extra will be charged to the Candidate in order to cover the expenses incurred in holding an Examination out of London. The fee for Examination must be paid to the Secretary; 10s. 6d. on making application, and the remainder at least one week before the day of Examination. On the receipt of the fee, a ticket will be forwarded admitting to the Examination.

A Certificate of Competency, signed by the Examiners, and bearing the Seal of the Institute, is granted to each successful Candidate.

Unsuccessful Candidates for the Inspectors' Examination are allowed to present themselves at any other Examination within twelve months on payment of half fees.

Any person having passed the Examination and received the Certificate for Local Surveyor is, by virtue of having such Certificate, upon proposal and election as Member of the Institute, exempt from payment of the Entrance Fee, and will be called upon to pay only the reduced subscription of £1. 1s. annually.

Any person having passed the Examination and received the Certificate for Inspector of Nuisances is, by virtue of having such Certificate, upon proposal and election as Associate of the Institute, exempt from payment of the Entrance Fee, and will be called only to upon pay the reduced subscription of 10s. 6d. annually.

The dates proposed for the Examinations for 1894 are as follows:—

For Surveyors—

London—Friday and Saturday, June 1st and 2nd.*

For Inspectors of Nuisances—

Nottingham—Friday and Saturday, March 16th and 17th.

London " " April 6th and 7th.

Durham " " April 27th and 28th.

Bristol " " May 4th & 5th.

Hull " " May 25th and 26th.

Plymouth " " June 22nd and 23rd.

Norwich " " July 6th and 7th.

London " " December 7th and 8th.

Cardiff " " December 14th and 15th.

Liverpool " " December 21st and 22nd.

The forms to be filled up before the Examination, by Candidates and by those persons recommending them, will be supplied on application to the Secretary.

* The Examination for Local Surveyors will be discontinued after this date.

SYLLABUS of SUBJECTS for EXAMINATION.

FOR LOCAL SURVEYORS.

- (1.) **LAWS AND BYE-LAWS**—A thorough knowledge of the Acts affecting Sanitary Authorities, so far as they relate to the duties of Local Surveyors; also, of the Model By-Laws issued by the Local Government Board.
- (2.) **SEWERAGE AND DRAINAGE**—The Sanitary arrangements of houses, including internal drainage, the construction of water-closets, privies, and dry-closets, the removal and disposal of refuse; the Sanitary defects of Builder's and Plumber's work; the Sanitary principles of Sewerage and Drainage and their application in the preparation of schemes for, and in the construction of, Sewerage works; the flushing and ventilation of sewers, and the treatment and disposal of sewage.
- (3.) **WATER SUPPLY OF TOWNS AND HOUSES**—The sources of water, methods of collecting, purification (filtration, softening, &c.), and distribution. The Sanitary principles of Water Supply, and their application in the preparation of schemes for, and in the construction of, Water-works; the various ways in which water is likely to become polluted, and the best means of ensuring its purity.
- (4.) **STRUCTURAL**—Regulation of Cellar Dwellings and Lodging Houses, and of Baths and Wash-houses; General principles of Ventilation and their practical application; the amount of air and space necessary for men and cattle; the means of supplying air, and of ensuring its purity.
- (5.) **HIGHWAYS AND STREETS**—The Sanitary principles which should be observed in the construction and cleansing of streets and roads. Candidates will be required to make free-hand sketches.

FOR INSPECTORS OF NUISANCES.

Duties of Inspectors of Nuisances as defined by the order of the Local Government Board, March, 1891.

Syllabus of Subjects for Examination.

(1.) He shall perform, either under the special directions of the Sanitary Authority, or so far as authorized by the Sanitary Authority, under the directions of the Medical Officer of Health, or in cases where no such directions are required, without such directions, all the duties specially imposed upon an Inspector of Nuisances by the Public Health Act, 1875, or by any other Statute or Statutes, or by the Orders of the Local Government Board, so far as the same apply to his office.

(2.) He shall attend all meetings of the Sanitary Authority when so required.

(3.) He shall by inspection of the District, both systematically at certain periods, and at intervals as occasion may require, keep himself informed in respect of the nuisances existing therein that require abatement.

(4.) On receiving notice of the existence of any nuisances within the District, or of the breach of any by-laws or regulations made by the Sanitary Authority for the suppression of nuisances, he shall, as early as practicable, visit the spot, and inquire into such alleged nuisance or breach of by-laws or regulations.

(5.) He shall report to the Sanitary Authority any noxious, or offensive businesses, trades, or manufactures established within the District, and the breach or non-observance of any by-laws or regulations made in respect of the same.

(6.) He shall report to the Sanitary Authority any damage done to any works of water supply, or other works belonging to them, and also any case of wilful or negligent waste of water supplied by them, or any fouling by gas, filth, or otherwise, of water used for domestic purposes.

(7.) He shall from time to time, and forthwith upon complaint, visit and inspect the shops and places kept or used for the preparation or sale of butchers' meat, poultry, fish, fruit, vegetables, corn, bread,

The Provisions of the Acts and Model By-Laws relating to the duties of Inspectors of Nuisances.

A knowledge of what constitutes a Nuisance.

Methods of Inspection, of Dwellings, Cellar Dwellings, Dairies, Milk-shops, Markets, Slaughter-houses, Cow-sheds, Canal Boats and Nuisances especially connected with Trades and Manufactories.

The Physical Characteristics of good Drinking Water—the various ways in which it may be polluted, by Damage to Supply Works or in Houses, and the means of preventing pollution—Methods of Water Supply.

four, milk, or any other article to which the provisions of the Public Health Act, 1875, in this behalf shall apply, and examine any animal, carcase, meat, poultry, game, flesh, fish, fruit, vegetables, corn, bread, flour, milk, or any other article as aforesaid, which may be therein; and in case any such article appear to him to be intended for the food of man, and to be unfit for such food, he shall cause the same to be seized, and take such other proceedings as may be necessary in order to have the same dealt with by a Justice: Provided, that in any case of doubt arising under this clause, he shall report the matter to the Medical Officer of Health, with the view of obtaining his advice thereon.

(8.) He shall, when and as directed by the Sanitary Authority, procure and submit samples of food, drink, or drugs suspected to be adulterated, to be analysed by the analyst appointed under "The Sale of Food and Drugs Act, 1875," and upon receiving a certificate stating that the articles of food, drink, or drugs are adulterated, cause a complaint to be made, and take the other proceedings prescribed by that Act.

(9.) He shall give immediate notice to the Medical Officer of Health of the occurrence within the district of any contagious, infectious, or epidemic disease; and whenever it appears to him that the intervention of such officer is necessary in consequence of the existence of any nuisance injurious to health, or of any overcrowding in a house, he shall forthwith inform the Medical Officer of Health thereof.

(10.) He shall, subject to the directions of the Sanitary Authority, attend to the instructions of the Medical Officer of Health with respect to any measures which can be lawfully taken by an Inspector of Nuisances under the Public Health Act, 1875, or under any other Statute or Statutes, for preventing the spread of any contagious, infectious, or epidemic disease of a dangerous character.

(11.) He shall enter from day to day, in a book to be provided by the Sanitary Authority, particulars of his inspections and of the action taken by him in the execution of his duties. He shall also keep a book or books, to be provided by the Sanitary Authority, so arranged as to form, as far as possible, a continuous record of the sanitary condition of each of the premises in respect of which any action has been taken under the Public Health Act, 1875, or under any other Statute or Statutes, and shall keep any other systematic records that the Sanitary Authority may require.

(12.) He shall at all reasonable times, when applied to by the Medical Officer of Health, produce to him his books, or any of them, and render to him such information as he may be able to furnish with respect to any matter to which the duties of Inspector of Nuisances relate.

(13.) He shall, if directed by the Sanitary Authority to do so, superintend and see to the due execution of all works which may be undertaken under their direction for the suppression or removal of nuisances within the district.

(14.) He shall, if directed by the Sanitary Authority to do so, act as Officer of the said Authority as Local Authority under the Contagious Diseases (Animals) Act, 1886, and any Orders or Regulations made thereunder.

(15.) In matters not specially provided for in this Order, he shall observe and execute all the lawful orders and directions of the Sanitary Authority, and the Orders of the Local Government Board which may be hereafter issued, applicable to his office.

The Characteristics of good and bad Food (such as Meat, Fish, Milk, Vegetables).

The sale of Food and Drugs' Act.

The Regulations affecting persons suffering or recovering from Infectious diseases, and some knowledge of such diseases—The principles of Ventilation, and simple methods of Ventilating Rooms—Measurement of Cubic Space.

Disinfectants and Methods of Disinfection.

A Knowledge of the General Duties of the Office, and Methods of keeping the necessary Books and Records, Writing and Spelling.

The proper conditions of good Drainage—The advantages and disadvantages of various Sanitary Appliances for Houses—Inspection of Builder's and Plumber's work—Scaevenging and the Disposal of Refuse.

Particulars as to Local Boards requiring Candidates to hold Certificates.

For several years past it has been the practice of many Local Authorities to insert in their advertisements for Inspectors of Nuisances clauses similar to the following, or otherwise to definitely recognise the desirability of a Certificate:—
Extract from advertisements—

POPULAR DISTRICT.

" . . . Candidates must possess a knowledge of building construction, and if not already in possession of the Certificate of The Sanitary Institute, must obtain such Certificate within twelve months of appointment. . . ."

PADDINGTON PARISH.

" . . . Applicants must have passed a satisfactory examination and be in possession of Certificates from The Sanitary Institute. . . ."

LIVERPOOL.

" . . . Candidates must hold the Certificate of The Sanitary Institute of Great Britain. . . ."

METROPOLITAN—(30).

- City of London, 1891.
- Battersea, 1885-9-91-3.
- Bermondsey, 1893.
- Bethnal Green, 1889-90-93.
- Camberwell, 1891-92.
- Chelsea, 1893.
- Fulham, 1890-90.
- Greenwich, 1890-91-92.
- Hackney, 1891-93.
- Hammersmith, 1891-2-3.
- Hampstead, 1891-92.
- Kensington, 1891-92-93.
- Lambeth, 1890.
- Limelhouse, 1890.
- Marylebone, 1891.
- Newington, 1891-93.
- Paddington, 1884-89.
- Poplar, 1890-93.
- Rotherhithe, 1893.
- St. George's, Hanover Square, 1891.
- St. George's-in-the-East, 1892. [1891.
- St. James's, Westminster, 1891.

- St. Luke's, 1887-91-93.
- St. Margaret, Westminster, 1892-93.
- St. Mary, Islington-1892-93.
- St. Olave's, 1889.
- St. Pancras, 1885-87-90-92.
- St. Saviour's, 1889.
- Wandsworth (4), 1888-89-91-92-93.
- Whitechapel, 1891.

PROVINCIAL—(102).

- Aberavon, 1893.
- Alton, 1893.
- Bangor, 1893.
- Barnet, 1890.
- Bath, 1890.
- Battle, 1890.
- Bedwellty, 1891-92.
- Bexhill, 1892.
- Bexley, 1893.
- Birkenhead, 1891.
- Birmingham, 1892.
- Blackburn, 1892.
- Blackpool, 1889.
- Blean, 1890.
- Bolton, 1893.
- Bootle, 1893.
- Bournemouth, 1891-92.
- Bradfield, 1891.
- Brierley Hill, 1890-91.
- Bristol, 1884-86.
- Bromley, Kent, 1891-91.
- Cardiff, 1890-91-93.
- Carlisle, 1890-93.
- Carnarvon, 1891.
- Chester-le-Street, 1893.
- Chesterfield, 1892.
- Chiswick, 1891.
- Clay Lane, 1892.
- Cleethorpes, 1893.
- Coventry, 1891.
- Croydon, 1891.
- Darwen, 1891.
- Dawsbury, 1886-90.
- Dorchester, 1892.
- Eastbourne, 1889.
- Ely, 1888.
- Exeter, 1889.
- Festiniog, 1893.
- Foleshill, 1891.
- Grimby, 1893.
- Hailsham, 1886-91.
- Halifax, 1892.
- Hanley, 1891-92.
- Hartlepool, 1890.
- Hastings, 1892.
- Hebburn, 1892.
- Idle, 1892.
- Kingston - upon - Hull, 1884-90-90.
- Leeds, 1889.
- Liverpool, 1886-91.
- Lytham, 1887-92.
- Maidstone, 1889-89.
- Manchester, 1890-91-92-93.
- Margate, 1888-90.
- Margam, 1893.

- Midhurst, 1892. [1887.
- Milton-by-Sittingbourne, 1891.
- Nantyglo, 1891.
- Nelson, 1892.
- Newcastle-on-Tyne, 1891.
- Newmarket, 1887-88-90-92-93.
- Northampton, 1892.
- Norwich, 1892-93.
- Oswestry, 1887.
- Plymouth, 1892.
- Pontypool, 1892.
- Pontypridd, 1890-92.
- Poole, 1893.
- Portsmouth, 1890.
- Pottersbury, 1893.
- Rhyl, 1890.
- Risbridge, 1893.
- Salford, 1891-92.
- Scarborough, 1888.
- Settle, 1893.
- Sheffield, 1890-91-93.
- Southampton, 1890-91.
- Staffordshire County Council, 1892.
- Stockport, 1891-92.
- Stockton, 1887-90-91.
- Stretford, 1892.

[Continued on next page.]

LOCAL BOARDS REQUIRING CERTIFICATES—Continued.

Stroud, 1892-93.	Twickenham, 1887.	Willesden, 1891.
Sunderland, 1885-92.	Wakefield, 1891-93.	Winslow, 1893.
Swansea, 1893.	Ware, 1891.	Wimbledon, 1890.
Tendring, 1891.	Watford, 1837-93.	Winslow, 1893.
Thakeham, 1890-90-92.	West Bromwich, 1892.	Wood Green, 1892.
Tonbridge, 1893.	West Ham, 1891-93.	Worthing, 1890-91-93.
Tunbridge Wells, 1893.	Wigan, 1891.	Yorkshire, W.R., 1891.

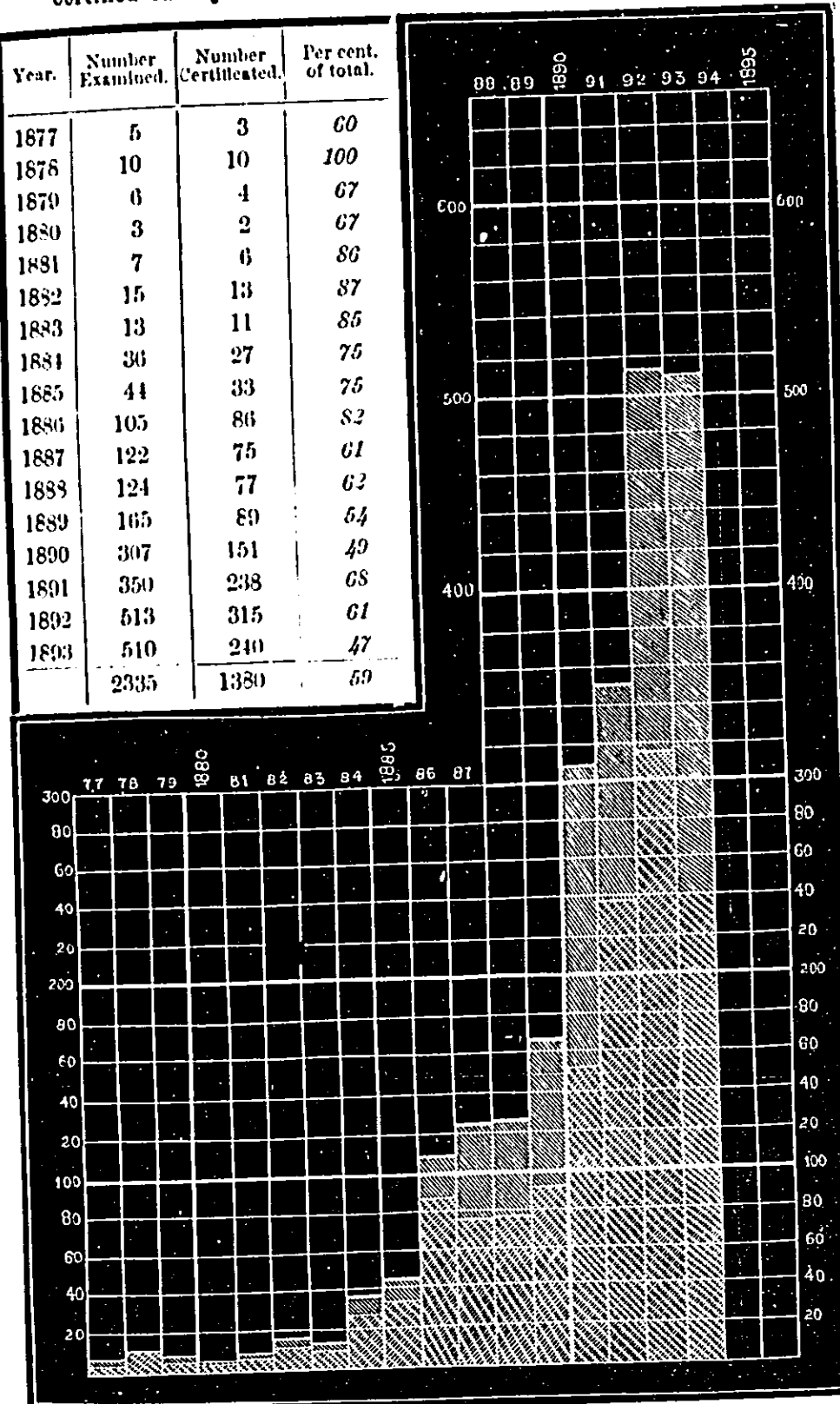
COLONIAL—(1).—Cape Colony, 1891.

Table showing the number of Candidates examined & certified each year.

Year.	Number Examined.			Certificated.				
	Surveyor	Inspector	Total.	Number.			Per cent. of Total.	
				Surveyor	Inspector	Total.	Surveyor.	Inspector.
1877	3	5	8	2	3	5	67	60
1878	11	10	21	3	10	13	27	100
1879	4	6	10	2	4	6	50	67
1880	10	3	13	6	2	8	60	67
1881	7	7	14	2	6	8	29	86
1882	6	15	21	3	13	16	50	87
1883	7	13	20	3	11	14	43	85
1884	14	36	50	7	27	34	50	75
1885	20	44	64	5	33	38	25	75
1886	19	105	124	9	86	95	47	82
1887	17	122	139	7	75	82	41	61
1888	25	124	149	8	77	85	32	62
1889	9	165	174	5	89	94	56	54
1890	18	307	325	8	151	159	44	49
1891	11	350	361	8	238	246	73	68
1892	35	513	548	20	315	335	57	61
1893	28	510	538	20	240	260	71	47
	244	2335	2579	118	1380	1498	48	59

Table and Diagram showing the number of Candidates examined and certified each year. Relating to Inspectors' Examination only.

Year.	Number Examined.	Number Certificated.	Per cent. of total.
1877	5	3	60
1878	10	10	100
1879	6	4	67
1880	3	2	67
1881	7	6	86
1882	15	13	87
1883	13	11	85
1884	36	27	75
1885	44	33	75
1886	105	86	82
1887	122	75	61
1888	124	77	62
1889	165	89	54
1890	307	151	49
1891	350	238	68
1892	513	315	61
1893	510	240	47
	2335	1380	59



NOTE.—The total number of Candidates is shown by the whole height of the column shaded, and the number who have obtained Certificates by the lighter portion.

List of Towns where Congresses have been held.

LEAMINGTON, 1877.	LEICESTER, 1885.
STAFFORD, 1878.	YORK, 1886.
CROYDON, 1879.	BOLTON, 1887.
EXETER, 1880.	WORCESTER, 1889.
NEWCASTLE-UPON-TYNE, 1882.	BRIGHTON, 1890.
GLASGOW, 1883.	PORTSMOUTH, 1892.
DUBLIN, 1884.	—
	13
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List of Towns where Examinations have been held.

FOR LOCAL SURVEYORS.

30 LONDON, 1877 to 1893.	1 CARDIFF, 1892.
1 DERBY, 1892.	1 DUBLIN, 1893.
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	33
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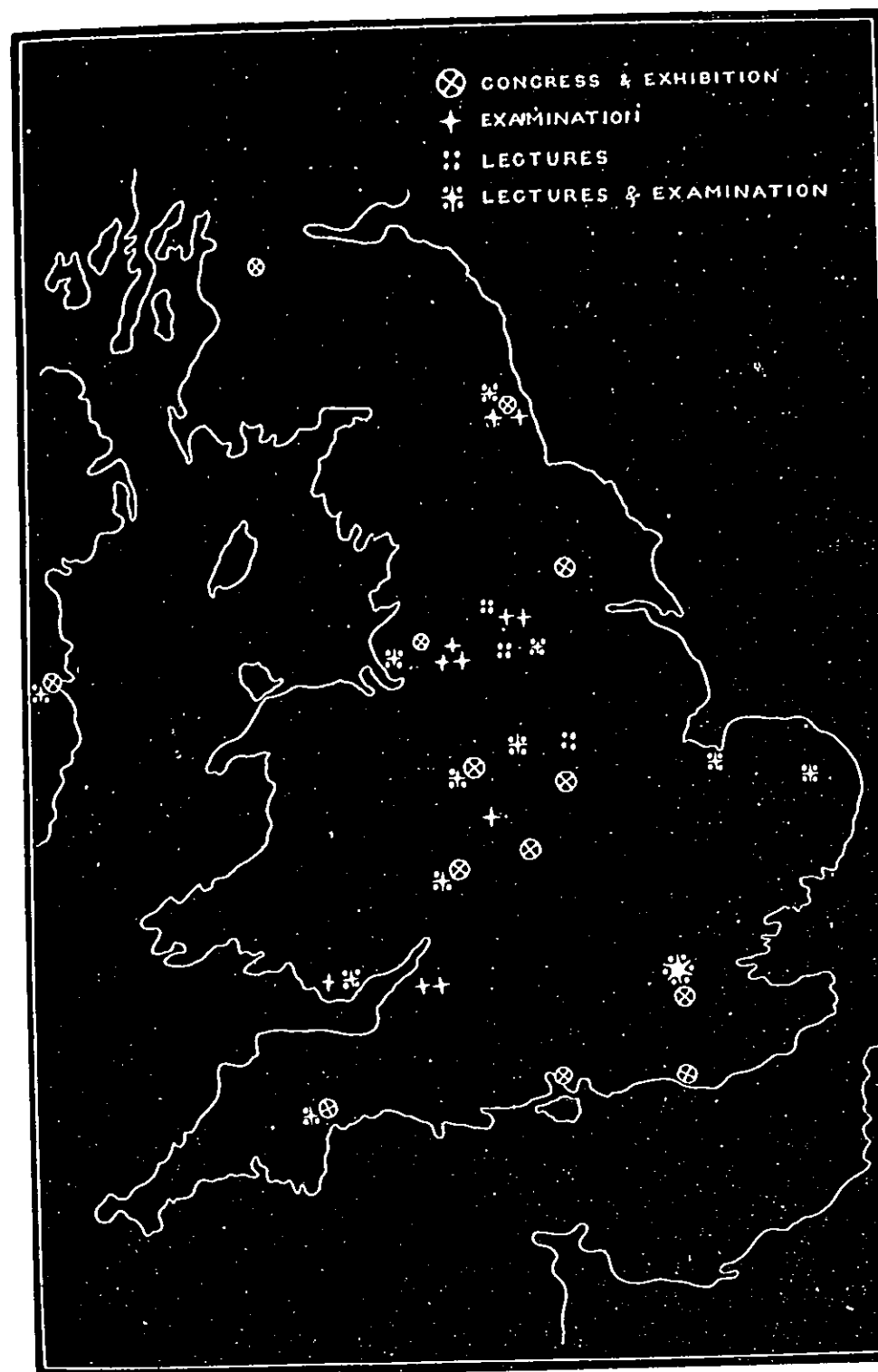
FOR SANITARY INSPECTORS.

34 LONDON, 1887 to 1893.	1 WAKEFIELD, 1892.
3 MANCHESTER, 1889, 1891, 1893.	2 CARDIFF, 1892, 1893.
2 BRISTOL, 1890, 1892.	1 NORWICH, 1892.
2 LEEDS, 1890, 1893.	1 LIVERPOOL, 1892.
1 BIRMINGHAM, 1891.	1 WORCESTER, 1893.
3 NEWCASTLE-UPON-TYNE, 1891,	1 LYNN, 1893.
1 STAFFORD, 1891. [1892, 1893.	1 EXETER, 1893.
1 DERBY, 1892.	1 DUBLIN, 1893.
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	56
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List of Towns where Courses of Lectures to Sanitary Officers have been given.

16 LONDON, 1885 to 1892.	1 WORCESTER, 1892.
1 STAFFORD, 1891.	1 LYNN, 1893.
1 DERBY, 1892.	1 EXETER, 1893.
1 WAKEFIELD, 1892.	1 DUBLIN, 1893.
1 CARDIFF, 1892.	1 KEIGHLEY, 1893.
1 NEWCASTLE-UPON-TYNE, 1892.	1 HUDDERSFIELD, 1893.
1 NORWICH, 1892.	1 NOTTINGHAM, 1894.
1 LIVERPOOL, 1892.	—
	30
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Map showing the various Centres to which the work of the Institute has been extended.



LIST OF CANDIDATES WHO RECEIVED CERTIFICATES DURING 1893.

LOCAL SURVEYORS.

- 1893, June 10. ADAMS, ALBERT EDWARD, Town Hall, Grimsby.
 1893, Nov. 30. ADAMS, HENRY C., 60, Queen Victoria Street, E.C.
 1893, Nov. 30. BALL, CHARLES F., 51, Prince Street, Bristol.
 1893, June 10. BASSETT, GILBERT THOMAS, Highfield Road, Saltley,
 Birmingham.
 1893, June 10. BUSBRIDGE, HAROLD, 96, Herbert Road, Plumstead.
 1893, June 10. ELFORD, ERNEST JOHN, City Engineer's Office,
 Norwich.
 1893, June 10. HADDOCK, HARRY FREDERICK, 9, Eland Road,
 Lavender Hill, S.W.
 1893, Nov. 30. HILL, WILLIAM HENRY, Jun., Audley House, Cork.
 1893, June 10. HOGGIN, LEONARD WILLIAM, Surveyor, Minster,
 Ramsgate.
 1893, Nov. 30. KILLICK, WILLIAM HENRY, Borough Surveyor's
 Office, Southampton.
 1893, June 10. LAMBERT, JOSHUA, Local Board Offices, Tottenham.
 1893, Nov. 30. LEE, LENNIE HENRY, Supervisor, Public Works
 Department, Calcutta, India.
 1893, Nov. 30. PERKINS, THOMAS L., 1, West Shrubbery, Redland,
 Bristol.
 1893, June 10. PHELPS, WILLIAM, 32, St. Stephen's Avenue, Shep-
 herd's Bush.
 1893, June 10. SCOTT, THOMAS KEAT, Town Surveyor, Whitby.
 1893, Nov. 30. SEWARD, WILLIAM B., 120, Camberwell Road, S.E.
 1893, June 10. SPINK, JOSEPH, Formby, Liverpool.
 1893, June 24. TIGHE, MICHAEL J., 8, Upper Sherrard Street,
 Dublin.
 1893, Nov. 30. WILLIS, EDWARD, 124, High Street, Eton.
 1893, June 10. WORRALL, ERNEST, 5, Beaconsfield Terrace, Sea-
 combe, Liverpool.

INSPECTORS OF NUISANCES.

- 1893, Apr. 15. ALLAN, GEORGE AWBURN, Junr., 5, Clipstone Street,
 Gt. Portland Street, W.
 1893, Jan. 28. ANDREW, GEORGE WALTER, 211, Monument Road,
 Birmingham.
 1893, Dec. 2. ANTHONY, THOMAS, 10, Hormead Road, Paddington.
 1893, Apr. 15. ARMSTRONG JOSEPH, 3, Colveston Crescent, Kings-
 land.

- 1893, Dec. 2. ASHER, HARRY, Albert Metal Works, Tiverton,
 Bath.
 1893, Jan. 28. ASHFIELD, RALPH, 5, Lansdowne Street, Worcester.
 1893, Nov. 11. AUBIN, PERCY A., 29, St. James's Street, St. Helier's,
 Jersey.
 1893, Apr. 15. AXTELL, ALFRED, 1, Gloucester Road, S.W.
 1893, Dec. 2. BALFOUR, ALEXANDER, 17A, High Road, Kiburn.
 1893, Apr. 15. BALL, ALFRED JOHN, 25, Oriental Street, East India
 Dock Road, Poplar, E.
 1893, Apr. 15. BARKER, FREDERICK, 5, Lawrence Street, Stockton-
 on-Tees.
 1893, Dec. 2. BARKER, GEORGE FORSTER, 68, Hillier Road, Wands-
 worth Common.
 1893, Dec. 2. BARKER, HERBERT, 43, Meeson Rd., West Ham, E.
 1893, Apr. 15. BARRALET, THOS. CHAPMAN, Surveyor and Inspector,
 Godstone Rural Sanitary Authority.
 1893, Apr. 15. BARRETT, HENRY JAMES, 20, Gowan Avenue, Fulham.
 1893, Dec. 2. BARTON, JAMES HENRY, 14, Young's Road, Folke-
 stone.
 1893, July 8. BEDFORD, EDWARD, Chapel Allerton, Leeds.
 1893, Apr. 15. BENNETT, EDWARD, 43, Manor Park Road, Harlesden.
 1893, Dec. 2. BLACKBURN, THOMAS, Borough Engineer's Depart-
 ment, Brighton.
 1893, Apr. 15. BLAY, ERNEST BERRINGER, 116, Matthias Road,
 Stoke Newington, N.
 1893, Dec. 2. BLOWFIELD, ERNEST FREDERICK, 3, Camberwell
 Station Road, S.E.
 1893, Dec. 2. BODEN, WALTER JOHN, 133, Finchley Road, N.W.
 1893, Apr. 29. BONE, WILLIAM HOMERSHAM, 35, Mall Road, Ham-
 mersmith.
 1893, Apr. 15. BRIDEL, HARRY FREDERICK, 3, Ballast Quay, East
 Greenwich, S.E.
 1893, Apr. 15. BRIDGES, OSWALD ARTHUR, 14, Park Road, Ryde,
 Isle of Wight.
 1893, July 8. BRIERLEY, SAMUEL, 26, Elford Grove, Roundhay
 Road, Leeds.
 1893, Dec. 16. BROOKE, JOHN, Town Surveyor and Inspector,
 Northwich.
 1893, Jan. 28. BROWN, WALTER, 148, Green Lane, Small Heath,
 Birmingham.
 1893, Apr. 15. BROWN, WILLIAM, 36, Clyde Road, Brighton.
 1893, Dec. 16. BRYAN, ELI, 32, Annerley Street, Edge Hill, Liver-
 pool.
 1893, Dec. 2. BUDDEN, ALEXANDER, Junr., Mission House, Larch
 Road, Balham.
 1893, July 29. BULLOCK, JAMES, Sanitary Inspector, Scarborough.
 1893, Dec. 2. BURREINGTON, THOMAS, Madge, Prospect, Swindon.
 1893, Apr. 15. BURROUGH, ARTHUR JOHN, 47, Shaftesbury Road,
 Gosport.
 1893, Apr. 15. CAMPBELL, COLIN, 10, Edith Road, West Kensington.

- 1893, Apr. 15. CASS, THOMAS F., 6, Lansdowne Street, Hull.
 1893, Dec. 2. CATTERALL, JAMES LAMB, 270, Vauxhall Bridge Road, Pimlico.
 1893, July 29. CAWSEY, THOMAS, 12, Coedpenmaen Road, Pontypridd.
 1893, May 27. CHALLICE, GEORGE MARKS, 141, Sidwell Street, Exeter.
 1893, Apr. 20. CHESTERFIELD, HENRY JAMES, 1, Balfour Street, Hull.
 1893, July 29. CHOULER, R. B., 1, Calthorpe Street, Gray's Inn Road, W.C.
 1893, Jan. 28. CODLING, HENRY, West Boldon, Co. Durham.
 1893, Dec. 2. COLLETT, H. HERBERT, 77, Myrdle Street, Commercial Road, E.
 1893, Dec. 2. COLLINS, ARTHUR WALTER, 172, High St., Peckham.
 1893, Dec. 2. COLLINS, EDWIN RICHARD, 4, Pembroke Villas, Underhill Road, East Dulwich.
 1893, Jan. 28. CONWAY, ISAAC HENRY BUGLER, Lillinton, Sherborne, Dorset.
 1893, Dec. 2. COOK, JOSEPH, 20, Gowan Avenue, Fulham.
 1893, Dec. 16. COOK, WILLIAM, 7, Duddon Road, Askam-in-Furness.
 1893, Apr. 15. COOKE, CHARLES, 152, St. Thomas Road, Finsbury Park, N.
 1893, Apr. 15. COTTRELL, JOHN, Fallowfield, Manchester.
 1893, July 29. COWLING, JOHN COOMBE, Penpont, Altarnun, Launceston.
 1893, Dec. 2. CRATHORN, JOSEPH, Gordon Street, Garrison Lane, Birmingham.
 1893, Apr. 15. CRUTTENDEN, THOMAS FRANK, 9, Tower Road, W., St. Leonards-on-Sea.
 1893, Dec. 2. CURD, ALBERT E., 24, David's Rd., Forest Hill, S.E.
 1893, Apr. 15. DALRYMPLE, ALEXANDER, 17, Wellington Street, Ayr, N.B.
 1893, Dec. 16. DAVIES, ALBERT JOHN, 158, Severn Road, Cardiff.
 1893, July 8. DAVIES, ANNIE M., The Gymnasium, Waterloo, Liverpool.
 1893, July 8. DAVIES, THOMAS, 79, Walthall Street, Crewe.
 1893, Apr. 15. DAVIS, JOHN EDWARD, 309, King's Road, Chelsea, S.W.
 1893, Dec. 2. DEANE, LUCY ANNE EVELYN, 100, Fulham Road, S.W.
 1893, May 27. DILKE, FRANCIS HENRY, 24, City Road, Bristol.
 1893, Dec. 2. DUNBAR, MARGARET, 41, Great Coram Street, W.C.
 1893, Jan. 23. DUNLOP, ANDREW, Park Farm, Witley, Stourport.
 1893, Dec. 2. DUNN, CHARLOTTE ELIZABETH, Kelfield Lodge, York.
 1893, Apr. 15. DUNN, JAMES STEPHEN, Board of Words, Poplar, E.
 1893, Dec. 2. EATON, HARRINGTON HOLLOWAY, 64, The Green, Darlaston.
 1893, Dec. 2. ELLETON, JOHN MALAM, 131, Tachbrook St., S.W.
 1893, Apr. 29. ELLIS, WILLIAM BAXTER, 31, Manbey Grove, Stratford, E.

- 1893, Nov. 11. ELLWOOD, WILLIAM, Brigham, Cokermouth.
 1893, Apr. 15. EVANS, PERCIVAL BAKER, 16, Irene Road, Poole Park, Fulham.
 1893, July 29. EVANS, SAMUEL, 36, Ryder Street, Canton, Cardiff.
 1893, Apr. 15. FEW, HERBERT ARTHUR, 19, Highbury Park, N.
 1893, Dec. 2. FILLIS, EDGAR, 3, Chester Terrace, Brighton.
 1893, July 8. FINDLAY, ALEXANDER BURNS, 97, Canning Street, Bridgeton, Glasgow.
 1893, Jan. 28. FLETCHER, WALTER JOHN, F.R.I.B.A., Wimborne, Dorset.
 1893, Dec. 16. FOWLES, JOSEPH HENRY, 13 & 15, Hornby Street, Heywood, Lancashire.
 1893, Jan. 28. FRANKS, EDWIN JAMES (deceased).
 1893, Jan. 28. FURBER, FRANK ARTHUR, 139, Ladywood Road, Birmingham.
 1893, Apr. 15. GENTRY, HERBERT JOHN, 63, Loftus Road, Shepherd's Bush, W.
 1893, May 27. GIBBARD, JOHN RICHARD, 5, Old Tiverton Road, Exeter.
 1893, July 29. GLOVER, FRANK, 8, Spring Gardens Terrace, Roath, Cardiff.
 1893, Jan. 28. GODFREY, BERNARD, Droitwich.
 1893, Dec. 2. GOODERHAM, FRANCIS FREDERICK, Town Hall, Great Yarmouth.
 1893, Dec. 16. GRAHAM, JAMES, 53, Sarah Ellen Street, Blackburn.
 1893, May 27. GRAY, ARTHUR HERBERT, Ordnance Store Corps, Woolwich.
 1893, Apr. 15. GREGORY, EDWARD GEORGE, 11, Briscoe Rd., Merton.
 1893, Apr. 15. GREGORY, FRANK.
 1893, Dec. 2. HALL, JAMES WILLIAM WHARTON, 34, St. Julien's Road, Kilburn.
 1893, Dec. 2. HAMLIN, HOUSTON, 203, Burrage Road, Plumstead.
 1893, Apr. 15. HANNANT, WILLIAM B., 34, Blenheim Terrace, St. John's Wood, N.W.
 1893, July 8. HARDMAN, JOHN, 14, St. George's Road, Preston.
 1893, July 8. HARGREAVES, JOHN EMANUEL, 53, Berry Street, Burnley.
 1893, Jan. 28. HARRISON, EDWARD STANHOPE, Sanitary Inspector, Swansea.
 1893, July 8. HARRISON, JOHN BENSON, 110, King Street, Southport.
 1893, Dec. 2. HATTERSLEY, JESSE EARLAND, 1, Basuto Road, Poole Park, Fulham.
 1893, Apr. 29. HAYNES, JOSIAH ERNEST, Watton, Norfolk.
 1893, Apr. 15. HEAD, ARTHUR PARR, 39, Barnsdale Road, St. Peter's Park, W.
 1893, Dec. 2. HENLEY, SIDNEY H., 22, Grosvenor Rd., Richmond Surrey.
 1893, Apr. 15. HEWITT, FRANCIS JOSEPH, 9, Bridge Road, Edgehill, Liverpool.

- 1893, Apr. 15. HIBBERT, THOMAS, New Road, Ware, Herts.
 1893, Dec. 16. HIGGINSON, FRANK, 10, Birmingham Street, Bolton.
 1893, July 8. HOGG, ARTHUR, 35, Dale Street, Huddersfield.
 1893, July 29. HOLBOURN, STEPHEN J., 31, George Street, Docks, Cardiff.
 1893, Dec. 2. HOLBROOK, JOHN WILLIAM, 9, Freemantle Place, Stokes Croft, Bristol.
 1893, July 29. HOLDEN, JOHN WHITE, 91, Strathnairn Street, Roath, Cardiff.
 1893, Dec. 2. HOLMES-WALKER, FREDERICK, 13, Sheen Dale Villas, Richmond, Surrey.
 1893, Apr. 15. HOOPER, THOMAS HENRY, 61, Wandsworth Road, S.W.
 1893, Dec. 16. HORSFIELD, JONATHAN P., Salford Union Infirmary, Eccles.
 1893, Dec. 2. HOWES, ERNEST, 19, Flint Street, Walworth, S.E.
 1893, July 8. HUTTON, ALBERT EDWARD, 38, Swamp, Queensbury.
 1893, Dec. 16. HUTTON, JOHN, 22, Highgate, Kendal.
 1893, Jan. 28. JACKSON, THOMAS, 288, New Hall Road, Preston.
 1893, Dec. 2. JACKSON, THOMAS HENRY, 1, Badsworth Road, Camberwell.
 1893, May 27. JARVIS, EDWARD JAMES, 78, Treville Street, Plymouth.
 1893, July 29. JENKINS, DAVID, Port Sanitary Offices, Docks, Cardiff.
 1893, Apr. 15. JOELS, WILLIAM GEORGE.
 1893, Apr. 15. JOHNS, DAVID JAMES, 28, Gelli Road, Tonpentre, South Wales.
 1893, Dec. 2. JOHNSON, GEORGE EDWARD, 1, Kingsley Road, Willesden Lane, Kilburn.
 1893, July 29. JONES, THOMAS, Tŷ Ivor, Melincrythan, Neath.
 1893, Apr. 15. JONES, WILLIAM ROBERT, 49, Bowsfield Road, St. Catherine's Park, Hatcham.
 1893, Dec. 2. JORDAN, EDWARD T. D., 13B, Gardner Road, Hampstead.
 1893, Jan. 28. KEASEY, HENRY, 41, Stirling Road, Edgbaston.
 1893, July 8. KENDALL, ALAN, 46, Sefton Street, Southport.
 1893, May 27. KERSLAKE, RICHARD P. C., 71, Sidwell Street, Exeter.
 1893, Apr. 15. KING, CLAUDE, 24, Prince of Wales Road, Norwich.
 1893, July 8. KIRK, WILLIAM WILLEY, 40, Bateman Street, Hyson Green, Nottingham.
 1893, Dec. 2. KNAPPETT, BENJAMIN ALBERT, East View New Road, Weybridge.
 1893, Apr. 15. LADD, HENRY FREDERICK BURNHAM, 5, Crompton Terrace, Walmer.
 1893, Apr. 15. LAMBLE, PHILIP THOMAS, 14, Chichester Street, Paddington.
 1893, Jan. 28. LANE, FOUNTAIN EDWARD, Holly Cottage, Upton-on-Severn.

- 1893, Jan. 28. LATHAM, ASHTON, 12, Cable Street, Southport.
 1893, July 8. LATIMER, GEORGE COLLIN, 56, Salop Street, Kirkdale, Liverpool.
 1893, Jan. 28. LAWSON, ARCHIBALD, 103, Leinster Road, Rathmines, Dublin.
 1893, June 24. LAWSON, ROBERT, The Grove, Northbrook Road, Dublin.
 1893, Apr. 15. LENEY, ALFRED EDWIN, Fothersby House, Hawkhurst, Kent.
 1893, Apr. 15. LEWIS, JAMES, 17, Heyford Avenue, South Lambeth Road, S.W.
 1893, Apr. 15. LEWIS, JOHN, 22, Tower Road, Boscombe, Bournemouth.
 1893, Dec. 2. LILL, GEORGE DAVEY, 167, Brunswick Road, Poplar, E.
 1893, Dec. 2. LILLIE, EDWARD JOHN, 97, St. John's Wood Terrace, N.W.
 1893, Dec. 16. LIVESEY, HENRY, Primrose Villa, Fulwood, Preston.
 1893, Jan. 28. LLOYD, THOMAS, 16, New Street, Stourport.
 1893, Apr. 15. LOCKWOOD, ARTHUR CHARLES, 49, Queen's Road, Crown Hill, Norwood.
 1893, Apr. 15. MANNING, FREDERICK HENRY, 12, Cobden Road, Brighton.
 1893, Dec. 16. MARKS, CHARLES WILLIAM, 27, Shaftesbury Street, Eccles.
 1893, Dec. 2. MATCHETT, WILLIAM EDWARD, Aberdeen Villa, Heathfield Road, Bromley, Kent.
 1893, Jan. 28. MATTHEWS, HENRY, Grimley, Worcester.
 1893, Dec. 2. MAY, WILLIAM JOHN, 29, Sandringham Road, Dalston.
 1893, Dec. 2. MILLARD, WILLIAM, 1, Holmes Place, Fulham Road, S.W.
 1893, July 29. MILLS, ARTHUR EDWARD, 2, Market Street, Wells, Somerset.
 1893, Dec. 2. MILTON, JOHN, 47, Mount Row, Berkeley Square, W.
 1893, Apr. 15. MITCHENER, WILLIAM EDWARD, 27, New York Street, Brighton.
 1893, Dec. 2. MOFFATT, SIDNEY PAGET, Holy Trinity Vicarage, Blackburn.
 1893, Nov. 11. MOLE, JOHN HEDLEY, East Boldon, Newcastle-upon-Tyne.
 1893, July 29. MOORE, CHARLES, Guildhall, Wrexham.
 1893, July 29. MORGAN, EVAN THOMAS, 1, Llwynmadoc Street, Graigwen Road, Pontypridd.
 1893, Apr. 15. MORGAN, FORBES, 62, Camden Street, Camden Town.
 1893, Dec. 2. MUNCRTON, CHARLES, Wimborne Minster, Dorset.
 1893, Nov. 11. MUSE, JOHN GILL, 27, North Hamilton Street, Kilmarnock.
 1893, Apr. 15. OLLIS, JOHN JAMES, Hill Farm, Saltford, Bristol.

- 1893, Nov. 11. ORKNEY, WILLIAM CARNEGII, Moncrieffe, Perth.
 1893, Apr. 15. OWEN, WILLIAM, Post Office, Glen Garth, Anglesea.
 1893, Jan. 28. PACY, WILLIAM, Worcester.
 1893, May 27. PALMER, ISAAC FAIRLEY, Ewell Road, Surbiton Hill.
 1893, Apr. 15. PARKER, WILLIAM ROE, 25, Trevillo Street, Plymouth.
 1893, Dec. 2. PARSLow, CHARLES JAMES, 39, Linver Rd., Fulham.
 1893, Apr. 15. PATERSON, ARTHUR WILLIAM, Station Road, New Barnet.
 1893, Jan. 28. PEAKE, WILLIAM ALFRED, Assistant-Surveyor, Cannock, Staffordshire.
 1893, May 27. PEARSE, RICHARD BLAKE, 30, Portland Street, Exeter.
 1893, June 24. PEMBERTON, JOSEPH J., 23a, Charlemont Street, Dublin.
 1893, May 27. PENGELLY, JOHN ISAAC, 15, St. James's Road, Exeter.
 1893, Dec. 2. PERRIN, WILLIAM JAMES, 12, Collier Street, Pentonville.
 1893, July 8. PEXTON, EDWARD, Shop Lane, Kirkheaton.
 1893, Apr. 15. PIERCY, EDMUND ERNEST, 18, Pentinan Road, Clapham.
 1893, Apr. 15. PIKE, WILLIAM HENRY, Ordnance Store Corps, Woolwich.
 1893, Jan. 28. PITCHFORTH, SAMUEL ABRAHAM, 3, Chestnut Villa, Foleshill, Coventry.
 1893, Dec. 2. PLISTED, HORACE THOMAS, 6, Emily Terrace, Putney.
 1893, Dec. 2. PLUMER, WALTER, 14, Kennington Grove, S.E.
 1893, Dec. 2. POWELL, WILLIAM GEORGE, 19, Kingsfield Road, Southampton.
 1893, July 29. PRESTON, ALFRED PEARCE, 42, Arran Street, Cardiff.
 1893, July 8. PRINCE, S. E., 37, Warwick Street, Rotherham.
 1893, Dec. 2. PULFER, FREDERICK CHARLES, 16, Kitto Road, St. Catherine's Park, S.E.
 1893, Dec. 2. PUZEY, FREDERICK, 187, Brighton Road, Croydon.
 1893, May 27. QUICK, EDWARD HARE, Lympstone, Devon.
 1893, Dec. 2. RABBETTS, CHARLES GEORGE, 55, Middle Street, The Avenue, Southampton.
 1893, Apr. 15. RALPH, WILLIAM HOLDEN, 19, Howard Road, Brighton.
 1893, Apr. 15. RANDS, HAROLD WALTER, Whitby's School, Chichester.
 1893, Dec. 2. RAPSON, THOMAS HENRY, 28, Poynings Road, Upper Holloway, N.
 1893, Apr. 29. RAYNER, GEORGE, The Green, Downham Market.
 1893, Dec. 16. REID, WILLIAM JOHN, 99, Bradbury Place, Belfast.
 1893, July 8. REYNOLDS, ERNEST FRESHFIELD, Guildford House, Harrogate.
 1893, Apr. 15. RICHARDSON, FRED, High Street, Brasted, Sevenoaks.
 1893, Dec. 2. RICKETT, GEORGE, Roxburgh House, Westgate-on-Sea.

- 1893, July 29. RIGGS, JOHN WILLIAM, 3, Avenue Cottages, Torquay.
 1893, Nov. 11. ROBSON, CHARLES, 3, Churton Road, North Shields.
 1893, Dec. 2. ROMERIL, WILLIAM GEORGE, 20, Burney Street, Greenwich, S.E.
 1893, Apr. 29. ROUSE, FRANK J., Student Inst.C.E., 3, Manor Way, Blackheath.
 1893, Nov. 11. RUGG, HUGH DANIEL, 22, Woodstock Road, Poplar, London, E.
 1893, Apr. 15. RUGG, SAMUEL HORACE, 165, Earls Court Road, S.W.
 1893, Dec. 2. SCARFE, ROLAND, 19, The Chase, Clapham Common.
 1893, Apr. 15. SCHLUND, WILLIAM THEODORE, 46, Kemp Street, Brighton.
 1893, Dec. 2. SEXTON, CHARLES GEORGE, 3, Kildare Terrace, Hanworth Road, Hounslow.
 1893, Apr. 15. SHARMAN, EDWARD MANSFIELD, 104, Acomb Street, Greenheys, Manchester.
 1893, Dec. 2. SHERVILL, JOHN ALFRED, 1, Arthur Villas, Queen's Road, Teddington.
 1893, Apr. 15. SIMMS FREDERICK, 29, Adelaide Street, St. Giles, Oxford.
 1893, Jan. 28. SINCLAIR, GEORGE ALFRED, 14, Mabel Terrace, Sunderland.
 1893, July 29. SLADE, FRANK ROBERT, Princes Street, Bristol.
 1893, Apr. 15. SMITH, EDWARD, 418, New Cross Road, S.E.
 1893, Apr. 15. SMITH, HENRY JOHN, 91, Malvern Road, West Kilburn, N.W.
 1893, Apr. 15. SMITH, WILLIAM, Preston, The Hyde, N.W.
 1893, Apr. 15. SQUIRRELL, HENRY THOMAS, 5, Station Road, Bexhill.
 1893, Apr. 15. STRATHON, WILLIAM HENRY, 3, Auburn Place, Plymouth.
 1893, May 27. STREAT, JOHN, Ottery St. Mary, Devon.
 1893, Dec. 2. SWINNOCK, WILLIAM JAMES, 218, Sultan Road, Landport, Portsmouth.
 1893, July 8. SWIRE, HENRY, 30, Sheep Street, Skipton.
 1893, May 27. SYKES, EDITH ELIZABETH, Woodleigh, East Dulwich Grove, S.E.
 1893, Nov. 11. SYMON, GEORGE, 30, Mitford Street, Newcastle-upon-Tyne.
 1893, July 8. TAYLOR, JAMES, 267, Tong Moor Road, Tong, Bolton.
 1893, Dec. 16. TERRY, JOHN, 24, Moorgate, Bury.
 1893, Jan. 28. THOMAS CHARLES LLEWELLYN, 30, Berkeley Place, Clifton, Bristol.
 1893, Nov. 11. TURNBULL, FRED R., 24, York Street, West Hartlepool.
 1893, Jan. 28. TURNER, FREDERIC RICHARD, Plough Inn, Tewkesbury.

1893, Apr. 15.	VEST, THEODORE, 75, Queen's Park Road, Brighton.
1893, July 8.	WAGSTAFF, WILLIAM HENRY, 16, Mapperley Road, Nottingham.
1893, Jan. 28.	WALKER, WILLIAM, 50, Artillery Street, Birmingham.
1893, Dec. 2.	WALLIS, FRANCIS FREDERICK, 96, Archway Road, Highgate.
1893, Dec. 2.	WARD, ARTHUR, 14, Kemp Street, Brighton.
1893, Dec. 16.	WATERS, THOMAS, 12, Rylands Street, Ardwick, Manchester.
1893, July 8.	WATSON, JAMES SYKES, 17, Barclay Street, Sunderland.
1893, Dec. 2.	WAY, WILLIAM, 159, Hartfield Road, Wimbledon.
1893, Apr. 15.	WEBSTER, JOHN WILLIAM, 3, Lanhill Road, Paddington.
1893, Dec. 2.	WHEATLEY, HARRY JAMES, 3, Townshend Terrace, Sheen Road, Richmond, Surrey.
1893, July 8.	WHINCEP, WILLIAM THOMPSON, 7, East Parade, Heworth, York.
1893, Jan. 28.	WHITE, WILLIAM LAMB, New Street, Upton-on-Severn.
1893, Apr. 15.	WIGGS, HERBERT TREHERNE, 166, Railton Road, Herne Hill, S.E.
1893, Dec. 2.	WILLIS, EDWARD, 124, High Street, Eaton.
1893, Nov. 11.	WILSON, MARMADUKE TEMPLE, 69, Narrowgate, Alnwick.
1893, Dec. 2.	WINKWORTH, HARVEY, Goring Heath, Reading.
1893, Dec. 2.	WINKWORTH, JOHN, Goring Heath, Reading.
1893, Dec. 2.	WISE, SYDNEY EDWARD, 200, Burrage Road, Plumstead.
1893, May 27.	WRIGHT, SAMUEL WILLIAM, 17, Melville Road, Ford, Devonport.

EXHIBITIONS HELD IN CONNECTION WITH THE CONGRESSES OF THE INSTITUTE.

	1877. Leamington.	1878. Stafford.	1879. Croydon.	1880. Exeter.	1882. Newcastle.	1883. Glasgow.	1884. Dublin.	1885. Leicester.	1886. York.	1887. Bolton.	1889. Worcester.	1890. Brighton.	1892. Portsmouth.
Number of Exhibitors	117	116	189	106	110	126	134	155	150	112	108	108	156
Number of Exhibits	294	319	710	500	600	750	900	1,000	900	800	800	1,000	2,010
Space occupied (in square ft.) ... ..	.....	.....	.....	9,725	14,520	20,000	40,000	30,000	30,000	25,000	28,000	30,000	35,000
Number of days Exhibition was open	14	16	17	19	25	25	19	17	26	29	23	18	24
Total number of Visitors ... ..	.....	.....	.....	8,955	8,373	20,000	35,000	37,000	30,000	27,000	23,000	35,000	49,000
Number of Medals awarded	13	13	12	12	15	21	18	34	16	14	30	31*	17*
Number of Special Certificates	None.	6	9	7	4	13	11	11	12	9	None.	None.	None.
Number of Certificates	None.	22	38	40	72	58	83	79	64	40	71	86*	66*
Number of Exhibits deferred for further trial ... ..	.....	7	52	30	37	44	39	119	42	46	67	67	58

* These do not include all the awards which may be given for Exhibits selected for further practical trial.

CONTRIBUTIONS TO LIBRARY DURING 1893.

In addition to the works enumerated in the following list, valuable donations of books, pamphlets, and official publications have been received from Mrs. CHEVERS (wife of the late Dr. Norman Chevers) and Mr. W. WHITAKER.

* * For publications of Societies and Institutions, &c., see under "Academies."

ACADEMIES, ASSOCIATIONS, COLLEGES, SOCIETIES, &c.

ACADEMIES (AMERICAN).

- Philadelphia. *College of Physicians*. Transactions, 1892, Vol. XIV., 243 p., 8vo. Philadelphia, 1892. *The Society.*
- Toronto. *Canadian Institute*. Transactions, Vol. III., Part II. 175 p., 8vo. Toronto, 1893. *The Institute.*
- Fifth Annual Report, Session 1892—93, being an Appendix to the Report of the Minister of Education, Ontario. 34 p., 8vo. Toronto, 1893. *The Institute.*

ACADEMIES (AUSTRALIAN).

- New South Wales. *Royal Society of*. Journal and Proceedings, Vol. XXVI., 1892. 425 p. (plates), 8vo. Sydney, 1892. *The Society.*

ACADEMIES (BRITISH).

- Glasgow. *Institution of Engineers and Shipbuilders in Scotland*. Transactions, Vol. XXXVI. for the 36th Session. 1892—1893. 382 p. 8vo., Glasgow, 1893. *The Institution.*

- Liverpool. *The Sanitary Inspectors' Association, North-Western District*. Sixth Annual Report, 1892. 16 p., 8vo. Liverpool, 1893. *The Association.*
- *Sanitary Inspectors' Association, North-Western District*. Chairman's Address by Ralph Norman. 8 p., 8vo. Liverpool, 1893. *The Association.*
- *Sanitary Inspectors' Association, North-Western District*. Presidential Address by H. P. Boulnois, M.INST.C.E. 8 p., 8vo. Liverpool, 1893. *The Association.*
- *Engineering Society*. Inaugural Address by H. P. Boulnois, M.INST.C.E. 13 p., 8vo. Liverpool, 1892. *The Author.*
- London. *British Association for the Advancement of Science*. Transactions, 1890—91. Rogers Field.
- Report of Conference on Temperance Legislation. 192 p., 8vo. London, 1886. *Rogers Field.*
- *Middlesex Hospital*. Reports, 1891. 358 p., 8vo. London, 1892. *The Hospital.*
- *Royal Institution of Great Britain*. Proceedings. Vol. XIV. p., 8vo. London, 1893. *The Institution.*
- *The Surveyors' Institution*. Transactions. Session 1892—93. p., 8vo. London, 1893. *The Institution.*
- *Architects, Society of*. Proceedings for 1893. p., 8vo. London, 1893. *The Society.*
- *City of London College*. Calender 1893—1894. 191 p., 8vo. London, 1893—1894. *The College.*
- *Municipal and County Engineers, Incorporated Association of*. Proceedings, Vol. XIX., 1892—1893. 365 p., 8vo. London, 1893. *The Association.*
- *The Medical Society of*. Transactions, Vol. XVI., 375 p., 8vo. London, 1893. *The Society.*
- *Royal College of Surgeons*. Calender of, for 1893. 341 p., 8vo. London, 1893. *The College.*
- *Royal Institute of British Architects*. Calender, 1893—1894. 296 p., 8vo. London, 1893. *The Institute.*
- *Royal Statistical Society*, Journal of. Vol. LVI., 798 p., 8vo. London, 1893. *The Society.*
- *Society of Engineers*. Transactions for 1892 and General Index 1861—1892. 285 p., 8vo. London, 1893. *The Society.*
- *St. Thomas's Hospital*. Reports, New Series, Vol. XXI., 607 p., 8vo. London, 1893. *The Hospital.*
- *University College*. Calender, Session 1893—1894. 439 p., 8vo. London, 1893. *The College.*
- Manchester & Salford. *Sanitary Associations*. Annual Report, 1892. 107 p., 8vo. Manchester, 1892. *The Association.*
- Newcastle-upon-Tyne. *North of England Institute of Mining and Mechanical Engineers*. Transactions, Vol. XLI., Part VI.; Vol. XLII., Part II. and III.; Annual Reports, &c. *The Institute.*

ACADEMIES (CONTINENTAL).

Amsterdam. *Royal Academy of Science.* Register op de Verslagen en Mededeelingen der Koninklijke Akademie van Wetenschappen, Afd. Natuurkunde Derde Reeks. Deel. 1—IX. 55 p., Svo. Amsterdam, 1893. *The Academy.*

— Verslagen en mededeelingen der Koninklijke Akademie van Wetenschappen. Afd. Natuurkunde Derde Reeks, Deel. IX. 185 p., Svo. Amsterdam, 1892. *The Academy.*

— Over net onderscheid in samenstelling tusschen arterieel en veneus Bloed door, Dr. H. J. Hamburger. 25 p., Svo. Amsterdam, 1892. *The Academy.*

— Verslagen der Zittingen van de wis-en natuurkundige afdeling der Koninklijke Akademie van Wetenschappen van 25 Juni, 1892, tot 28 April, 1893. 207 p., Svo. Amsterdam 1893. *The Academy.*

— Ueber die Butylalkoholgährung und das Butylferment von M. W. Beijerinck. 51 p., Svo. Amsterdam, 1893. *The Academy.*

Leipzig. *Landes-Medicinal Collegiums.* Dreiundzwanzigster Jahresbericht über das Medicinalwesen im Königreiche Sachsen auf das Jahr, 1891. 308 p., Svo. Leipzig, 1892. *F. W. C. Vogel.*

Rome. *R. Università.* Annali dell' istituto D'Igiene sperimentale. Vol. I. (Nuova Serie), Fasc. I., II., III., IV., 492 p., Svo. Roma, 1892. Vol. II., Fasc. IV. 60 p., Svo. Roma, 1893. Vol. III., Fasc. I. & II. 268 p., Svo. Roma, 1892-93. *The Academy.*

Albrecht, Dr. M. Bericht der Gesundheits-Commission für den Bezirk Uhlenhorst über ihre Thätigkeit während der Cholera-Epidemie, 1892. 8 p. (tables), 4to. Hamburg, 1893. *The Author.*

Amines Process. Explanatory pamphlet. 30 p., Svo. London. — Report on Experiments at Salford, July, 1891. 24 p., Svo. London.

Arlidge, Dr. J. T. The Hygiene, Diseases and Mortality of Occupations. 568 p., Svo. London, 1892. *Dr. G. V. Poore.*

— Pottery Manufacture in its Sanitary Aspects. 18 p., 16mo. Hanley, 1893. *The Author.*

Baxendell, J. Report and results of observations of the Southport Meteorological Department for the year 1892. 14 p., 4to. Southport, 1893. *The Author.*

Bayard, F. C. English Climatology, 1881—1890. 23 p., Svo. Excerpt Quarterly Journal of Royal Meteorological Society, Oct., 1892. *The Author.*

Blyth, Prof. A. Wynter. Lectures on Sanitary Law. 287 p., Svo. London, 1893. *The Author.*

Board of Agriculture. Agriculture Produce, Statistics of Great Britain, 1892. 33 p., Svo. London, 1893. *The Board.*

— Agricultural Returns of Great Britain, with Abstract Returns for the United Kingdom, British Possessions, and Foreign Countries, 1892. 191 p., Svo. London, 1892. *The Board.*

— Annual Report of the Director of the Veterinary Department for the year 1892, with an Appendix. 217 p., Svo. London, 1893. *Prof. G. T. Brown.*

— Agricultural Returns showing acreage under crops and grass, and the number of horses and cattle, sheep, and pigs in the United Kingdom, with particulars of each county of Gt. Britain (1893). 37 p., Svo. London, 1893. *The Board.*

— The Raspberry Moth. 3 p., Svo. London, 1893. *The Board.*

Boyle, Robert. A Sanitary Crusade through the East and Australia. 44 p., 16mo. London, 1892. *W. Whitaker.*

— A Sanitary Crusade through South Africa. 34 p., 16mo. London, 1891. *The Author.*

Brighton. Reports on the Sewage and Sanitary Condition of. 82 p., Svo. Brighton, 1883. *W. Whitaker.*

— **Water Works.** Inspection of Goldstone Bottom Pumping Station. Dec., 1884. 29 p., Svo. *W. Whitaker.*

Burnley. A historical and detailed description of the Sewage Disposal Works (Burnley), by F. S. Button. 88 p., 4to. Burnley, 1893. *The Author.*

Chadwick, Edwin. Paper on the Re-organization of the Civil Service, more especially on the results already obtained by Competitive Examinations for Appointments, and on the necessity of further Securities to insure Promotion for Merit in the Public Service. 96 p., Svo. London, 1855. *Rogers Field.*

Clarke, J. Wright. Lectures to Plumbers. 270 p., 4to. London, 1893. *The Author.*

Dairies, Cowsheds, and Milkshops. Acts and Orders relating to. 35 p., Svo. London, 1886. *Purchased.*

Eminson, T. B. Franklin. Epidemic Pneumonia at Scotter and neighbourhood: its history, causes, and future prevention. 66 p., 16mo. London, 1892. *G. J. Symons.*

Felix, Dr. J. Raport General despre Igiena publica si despre serviciul sanitar ale regatului romaniei pe anul, 1892. 190 p., Svo. Bucuresci, 1893. *The Author.*

Foreign Meat. Report from the Select Committee on the Marking of, &c., together with the Minutes of Evidence. 220 p., fcap. London, 1893. *Purchased.*

Galton, Sir Douglas. Cremation. An Address delivered at the meeting of the Church Congress, Birmingham, October, 1893. 6 p., Svo. London, 1893. *The Author.*

— Healthy Hospitals, Observations on some points connected with Hospital Construction. 287 p., Svo. Oxford and London, 1893. *The Author.*

Gillespie, Rev. C. G. K. The Claims of Sanitary Science upon the Clergy. 23 p., Svo. London, 1891. *The Author.*

- Greenwich Magnetical and Meteorological Observations, 1890. 153 p., 4to. London, 1892. *The Astronomer Royal.*
- Gruber, Dr. Max. Anhaltspunkte für die verfassung neuer Bauordnungen in allen die gesundheitspflege betreffenden beziehungen. 148 p. (plates), 4to. Wien, 1893. *The Author.*
- Die neue bauordnung der aussenstadt, Frankfurt, a.m. 21 p., 4to. Wien, 1892. *The Author.*
- Haden, F. S. Cremation an Incentive to Crime. 24 p., 8vo. London, 1892. *Dr. Thorne Thorne.*
- Hampstead. Surveyor's Report on the Drainage of Frogmal and Oak Hill Park. 16 p., 8vo. London, 1892. *C. H. Lowe.*
- Haviland, Alfred. On the Influence of Clays and Limestones on Medical Geography; illustrated by the Geographical Distribution of Cancer among Females in England and Wales. 16 p., 8vo. Excerpt from the Transactions of the International Congress of Hygiene. London, 1891. *The Author.*
- "Hurried to Death," especially addressed to Railway Travelers. 56 p., 8vo. London, 1868. *W. Whitaker.*
- Health at Home. Report of the Training of Rural Health Missioners, and of their Village Lecturing and Visiting under the North Bucks Technical Education Committee of the Bucks County Council, 1891 and 1892. 50 p., 8vo. Winslow, 1892. *Miss Florence Nightingale.*
- Hodson, George. A consideration on some of the conditions requisite for obtaining underground Water Supplies. 36 p., 8vo. London, 1893. *The Author.*
- Hong Kong. Report of the Director of Public Works for 1892. 24 p. (plates), f.cap. Hong Kong, 1893. *F. A. Cooper.*
- Report of the Surveyor General's Department for the year 1891. 14 p. (plates), f.cap. Hong Kong, 1892. *F. A. Cooper.*
- Report on Kowloon Water Supply. 8 p., f.cap. Hong Kong, 1892. *F. A. Cooper.*
- Report of the Water and Drainage Department for the year 1891. 16 p., f.cap. Hong Kong, 1892. *F. A. Cooper.*
- Japan. The Annual Report of the Health of the Imperial Navy for the twenty-fourth year of meiji (1891). 61 p., 8vo. Tokyo, 1892. *Central Sanitary Bureau, Navy Department, Japan.*
- Kansas State Board of Health. Eighth Annual Report, Jan. 1st to Dec. 31st, 1892. 323 p., 8vo. Topeka, 1893. *The Board.*
- Kenwood, Dr. H. R. Public Health Laboratory Work. 491 p., 8vo., London, 1893. *The Author.*
- Knight's Annotated Model Bye-Laws. Fourth Edition. 25 p., 8vo. London, 1893. *Purchased.*
- Lobley, J. L. The Supply of Water to London in the near and distant future. 32 p., 8vo. London, 1892. *The Author.*
- Local Government Board. Dr. Bruce Low's Report on the General Sanitary Condition of the Hendon Rural Sanitary District, and on Scarlatina and Diphtheria therein. 17 p., f. cap. London, 1893. *The Board.*

- Local Government Board. Dr. Bulstrode's Report upon the general Sanitary Condition of the Boro' of Poole and on Administration by the Sanitary Authority. 12 p., f. cap. London, 1893. *The Board.*
- Dr. Monckton Capoman's Report on the Sanitary Condition of the River Brent in the County of Middlesex. 9 p., f. cap. London, 1893. *The Board.*
- Further Report and Papers on Epidemic Influenza 1889-92. 154 p., 8vo. London, 1893. *The Board.*
- Dr. Maclean Wilson's Report on the Sanitary Condition of the Whitby Rural Sanitary District, with reference to the arrangements for the discharge of the duties of Medical Officer of Health. 12 p., f. cap. London, 1893. *The Board.*
- Dr. Airy's Report on the Sanitary Condition of Tenbury, in Worcestershire. 19 p., f. cap. London, 1893. *The Board.*
- Dr. Horne's Report on the Sanitary Condition of the Usk Urban Sanitary District, and on the prevalence of Diphtheria there. 8 p., f. cap. London, 1893. *The Board.*
- Dr. Maclean Wilson's Report on an outbreak of Enteric Fever at Chester-le-Street. 7 p., f. cap. London, 1893. *The Board.*
- Dr. W. W. E. Fletcher's Report on the Sanitary circumstances of the Monmouth Registration District, and on the prevalence of Diphtheria in that District. 34 p., f. cap. London, 1893. *The Board.*
- Enteric Fever in the Tees Valley. Supplement in continuation of the Report of the Medical Officer for 1891, by Dr. Barry. 150 p. f. cap. London, 1893. *The Board.*
- Dr. Horne's Report on Diphtheria at Derry Hill, in the Calne and Chippenham Rural Sanitary Districts. 5 p. f. cap. London, 1893. *The Board.*
- Dr. Bruce Low's Report on an outbreak of Enteric Fever in certain villages situated on the River Rye in North Yorkshire, and on the Water Supply of the Malton Urban Sanitary District. 15 p., f. cap. London, 1893. *The Board.*
- Twenty-first Annual Report, 1891—1892. 212 p., 8vo. London, 1893. *The Board.*
- Dr. Maclean Wilson's Report on the Sanitary Condition of the Whitby Urban Sanitary Authority. 7 p., f. cap. London, 1893. *The Board.*
- Mr. Sweeting's Report upon an outbreak of Enteric Fever at Temple Cloud, in the parish of Comeley, in the Clutton Rural Sanitary District. p., f. cap. *The Board.*
- Dr. W. E. Fletcher's Report on the Sanitary Condition of the Risca Urban Sanitary District. 3 p., f. cap. London, 1893. *The Board.*
- Mr. Evan Evans' Report on the Sanitary condition of the town of Amlwch, and on prevalence of "fever" there. 8 p. f. cap. London, 1893. *The Board.*

- Local Government Board.** Dr. S. Monekton Copeman's Report on the Sanitary Condition of Lakenheath, in the Mildenhall Rural District, with special reference to the recurrence there of Diphtheria during a series of years. 9 p., f. cap. London, 1892. *The Board.*
- Mr. T. W. Thompson's Report on the General Sanitary Condition of the York Rural Sanitary District. 18 p., f. cap. London, 1892. *The Board.*
- Dr. Maclean Wilson's Report on an Inquiry into a very fatal Outbreak of Diphtheria at Breedy Butts Farm, Thornton, in the Fylde Rural Sanitary District. p., f. cap. *The Board.*
- London County Council.** Report on Dust Destroyers, by the Medical Officer and the Engineer. 15 p. (Diagrams) f. cap. London, 1893. *S. F. Murphy.*
- Regulations as to Dairies, Cowsheds, and Milkshops. 8 p., f. cap. *The Council.*
- Bye-Laws for regulating the conduct of the business of an Animal Charcoal Manufacturer. 3 p., f. cap. *The Council.*
- Bye-Laws for regulating the conduct of the business of a Blood Drier. 3 p., f. cap. *The Council.*
- Bye-Laws made by the Council, under Section 31 of the London Council (General Powers) Act, 1890. 2 p., f. cap. *The Council.*
- Bye-Laws relating to the Construction of Sewers in London. 1 p., f. cap. *The Council.*
- Bye-Laws for regulating the Conduct of Blood Boiler, Manure Manufacturer, &c. 3 p., f. cap. *The Council.*
- Bye-Laws for regulating the Conduct of Fat Melter and Fat Extractor. 3 p., f. cap. *The Council.*
- Bye-Laws for regulating the Conduct of the Business of a Glue and Size Manufacturer. 3 p., f. cap. *The Council.*
- Bye-Laws for regulating the Conduct of the Business of a Cat Gut Maker. 5 p., f. cap. *The Council.*
- Bye-Laws for regulating the Conduct of a Gut Scraper. 3 p., f. cap. *The Council.*
- Bye-Laws for regulating the Conduct of the Business of a Knacker. 3 p., f. cap. *The Council.*
- Bye-Laws for regulating the Business of a Tripe Boiler. 3 p., f. cap. *The Council.*
- Bye-Laws made by the Council, under Section 16 of the Metropolis Management and Building Acts Amendment Acts, 1878. 2 p., f. cap. London, 1891. *The Council.*
- Lynde, F. C.** The Latest Sanitary Improvements in Drainage Work. 7 p., (plates), f. cap. *The Author.*
- Malvern, T.** Sanitary Dwellings. A Guide to Householders. 35 p., 8vo. Cheltenham, 1893. *The Author.*
- Meade, T. de Courcy.** Report to the Hornsey Local Board on Intercepting Traps and Water-tight Drains. 27 p. (plates), 8vo. London, 1893. *The Author.*

MEDICAL OFFICERS', ANALYSTS', AND SANITARY INSPECTORS' REPORTS.

	Year.	
Birmingham	1892.	Dr. Alfred Hill.
Bolton	"	Dr. Adams.
Calcutta	"	Dr. W. J. Simpson.
Cambridge	"	Dr. B. Anningson.
Cardiff	"	Dr. Walford.
Chelmsford Rural Sanitary Authority ..	"	Dr. J. C. Thresh.
Chesterton Local Board	"	Dr. B. Anningson.
Cornwall County Council	"	S. T. Taylor.
Cromer	"	S. T. Taylor.
Dublin	"	Sir C. Cameron.
Dumbarton County Council	1891, 1892.	D. Dunbar.
Ely Union, R.S.A.	1892.	Dr. B. Anningson.
Erpingham Union	"	S. T. Taylor.
Hackney District Board of Works	"	Dr. King Warry.
Hastings	"	Dr. A. S. Wilson.
Lanark, County of	1891, 1892.	A. Hay.
Liverpool	1892.	Dr. J. S. Taylor.
Maldon Rural Sanitary Authority	"	Dr. J. C. Thresh.
Merthyr Tydfil	"	T. J. Dyke.
Middlesex and Hertfordshire Combined Sanitary Districts	1885—91.	W. Gruggen.
Newcastle-on-Tyne	1891.	Dr. Armstrong.
Nottingham	1892.	Dr. Boobbyer.
River Tyne Port Sanitary Authority	"	Dr. H. E. Armstrong.
Royston Union, R.S.A.	"	Dr. B. Anningson.
St. Faith's Union	"	S. T. Taylor.
St. George's, Hanover Square (Analyst)	"	C. E. Cassal.
St. Ives Union, R.S.A.	"	Dr. B. Anningson.
St. Mary Abbots	"	Dr. Dudfield.
" " (Analyst)	"	C. E. Cassal.
St. Mary, Battersea (Analyst)	"	"
St. Pancras	"	Dr. J. F. J. Sykes.
Southampton	"	Dr. A. W. Harris.
Wandsworth	"	The Board.
Watford	"	Dr. A. T. Brett.
Whitechapel	"	Dr. J. Loune.
Wigan	"	J. Sumner.
Wolverhampton	1893.	Dr. H. Malet.

- Metropolitan Asylums Board.** Reports for the year 1892 of the Statistical Committee and the Medical Superintendents of the Infectious Hospitals and Imbecile Asylums; also of the Ambulance and Training Ship Exmouth Committees. 203 p., Svo. London, 1893. *The Board.*
- Miers, H. A.** The Soil in relation to Health. 135 p., Svo. London, 1893. *The Author.*
- Mullins, George Lane.** Registration of Still Births and the Protection of Infants. 8 p., Svo. Sydney, 1892.
- New Jersey, State Board of Health.** Sixteenth Annual Report and Report of Vital Statistics, 1892. 590 p., Svo. Trenton, New Jersey, 1892. *The Board.*
- New York, Board of Trade and Transportation on Quarantine.** Report of the Special Committee. 82 p., Svo. New York, 1893. *Dr. R. A. Williams.*
- Newsholme, Dr. Arthur.** The Brighton Life Table (based on the mortality of the ten years 1881-90). 39 p., Svo. Brighton, 1893. *The Author.*
- New South Wales.** Fifth Annual Report of the Metropolitan Board of Water Supply and Sewerage, being for the year 1892. 76 p. (diagrams), f. cap. Sydney, 1893.
- Nottingham.** The Meteorology of. 5 p. (plates), f. cap. Nottingham, 1892. *P. Bobblyer.*
- Oliver, Dr. Thomas.** Lead Poisoning in its acute and chronic forms. 121 p., Svo. Edinburgh and London, 1891. *Purchased.*
- Ottawa.** *Inland Revenue Department.* Bulletin, No. 32 and 33. *The Department.*
- Patents.** Abridgments of Specifications, 1877-83. 103 volumes, including Closets, Foods, Lamps, Medicine, Sewage Disposal, Ventilation, &c. *H.M. Patent Office.*
- Poore, Dr. G. V.** Rural Hygiene. 318 p., Svo. London, 1893. *The Author.*
- Power, Dr. J. B.** The Powers and Duties of Sanitary Inspectors. 16 p., Svo. Reprinted from Dublin "Journal of Medical Science," July, 1893. *The Author.*
- Public Health (Amendment) Act, 1890.** Model Bye-laws. 60 p., Svo. London, 1892. *Purchased.*
- Putzeys, M. Felix.** L'Épidémie de Trichinose de la prealle-herstal. 16 p., Svo. Extrait du Bulletin de l'Académie Royale de médecine de Belgique, année 1893. *The Author.*
- Redgrave, A.** The Factory and Workshop Acts, 1878-91. 298 p., Svo. London, 1893. *Purchased.*
- Registrar-General, England.** Fifty-Fourth Annual Report of Births, Deaths, and Marriages in England, 1891. 229 p., Svo. London, 1892; and Weekly and Quarterly Returns, 1893. *Registrar-General.*
- **Ireland.** Twenty-Eighth detailed Annual Report, containing a general abstract of the numbers of Marriages, Births, and Deaths for 1891. 190 p., f. cap.; and Weekly and Quarterly Returns, 1893. *Registrar-General.*

- Registrar-General, Scotland.** Thirty-sixth Detailed Annual Report Births, of Deaths, and Marriages in Scotland, 1890; and Weekly, Monthly, and Quarterly Returns, 1893. *Registrar-General.*
- Rome.** *Ministero dell' Interno.* Di un rapido processo per la colorazione dello ciglia di alcuni micro organismi nota dell Dott. Achille Selavo. 8 p., f. cap. Roma, 1893. *Ministero dell' Interno.*
- Circa i fatti principali riguardanti l'igiene e la sanità pubblica nel regno nei due ultimi quadrimestri 1892. 39 p., f. cap. Roma, 1892. *Ministero dell' Interno.*
- Sulla conservazione della birra per mezzo dell'acido carbonico per Dott. B. Gosio. 19 p., f. cap. Roma, 1893. *Ministero dell' Interno.*
- Circa i fatti principali riguardanti l'igiene e la sanità pubblica nel regno, nei mesi di Gennaio Febbraio, Marzo, Aprile e Maggio, 1893. 16 p., f. cap. Roma, 1893. *Ministero dell' Interno.*
- Roster, Prof. G.** Sul Novo tipo brevettato di Latrina Igea. 11 p., Svo. Torino, 1893. *The Author.*
- Le acque di condotto di Firenze. 23 p., Svo. Milan, 1893. *The Author.*
- Le acque freatiche della pianura di firenze. 21 p., Svo. *The Author.*
- L'acide carbonico del suolo. 18 p., Svo. *The Author.*
- Ruata, Dottor Carlo.** Trattato d'Igiene pubblica. 270 p., Svo. Peru, 1892. *Dr. Thorne Thorne.*
- Simon, Sir John.** Public Health Reports. 1172 p., Svo. London, 1887. *The Sanitary Institute.*
- Simla Municipality.** Bye-Laws under Punjab, Act XX. of 1891. 109 p., Svo. Simla, 1892. *A. Hale.*
- Annual Reports for the years, 1884, 1888-89, 1889-90. *A. Hale.*
- Smith, J. Barker.** Milk, a new system of rapid analysis. 24 p., Svo. London, 1892. *The Author.*
- Stevenson, Dr. T., and Shirley Murphy.** Treatise on Hygiene and Public Health, Vol. II. 847 p., Svo. London, 1893. *J. & A. Churchill.*
- Street, W. C.** Some problems of Town Development. 12 p. 4to. Excerpt "Journal Royal Institute of British Architects," Vol. IX., New series 19. *The Author.*
- Sworder, H.** Popular Information concerning Infectious Diseases. 82 p., Svo. London, 1893. *Dr. Thorne Thorne.*
- Taylor, A.** The Sanitary Inspector's Handbook. 243 p., Svo. London, 1893. *The Author.*
- Thomas, E. Lewis.** The Public Health (London) Act, 1891, with full explanatory notes. 393 p., Svo. London, 1891. *Purchased.*
- Thorne, Dr. Thorne.** Cholera Prospects and Prevention. 31 p., 16mo. London, 1893. *The Author.*
- United States Army.** Index-Catalogue of the Surgeon-General's Office, Vol. XIII. 1005 p., 4to. Washington, 1892. *The Surgeon-General U. S. Army.*

- Vacher, *Francis*. The Food Inspector's Handbook. 140 p., Svo. London, 1893. *The Author.*
- Ventilation. A paper read at the Royal United Service Institution December 7th, 1892. 51 p. Reprint from "Building News," December 22nd, January, 1893. *W. Whitaker.*
- Wallace, *J.* Sanitary Engineering in India. 238 p., Svo. Bombay, 1893. *The Author.*
- Wardle, *T.* Sewage Treatment and Disposal. 426 p., Svo. Manchester and London, 1893. *The Author.*
- Waring, *Col. G. E., Jun.* The Memphis System of Sewage at Memphis and elsewhere. 18 p., Svo. Concord N.H., 1893. Reprint from Vol. XVIII. of the Transactions of the American Public Health Association. *The Author.*
- Report on the Condition of the Sewers of Memphis, March 4th, 1893. 10 p., Svo. Memphis, 1893. *The Author.*
- Willoughby, *Dr. E. T.* The Health Officer's Pocket Book. 376 p., 16mo. London, 1893. *The Author.*
- Williams, *Robert*. London Rookeries and Colliers' Slums. A plea for more breathing room. 82 p., 4to. London, 1893. *The Author.*
- Winwood, *H. H.* On some Deep Well Borings in Somerset and elsewhere. 10 p., Svo. Excerpt proceedings of the Bath Natural History and Antiquarian Field Club, 1893. *W. Whitaker.*

PERIODICALS AND JOURNALS.

WEEKLY.

British Medical Journal.	Journal d'Hygiène.
Builder.	Journal Society of Arts.
Contract Journal.	Local Government Chronicle.
County Council Times.	Local Government Journal.
Illustrated Carpenter and Builder.	Nursing Record.
Industries and Iron.	Surveyor.
Invention.	The Sanitary Record.

MONTHLY.

Engineering Review.	Meteorological Record.
Health Record, Dublin.	Plumber and Decorator.
Hygiene.	Practitioner.
Ironmonger.	Public Health.
Journal of the Royal Institute of British Architects.	Sanitarian.
Medical Magazine.	Sei-i-Kwai Medical Journal.

QUARTERLY.

- Deutsche Vierteljahrsschrift für öffentliche Gesundheitspflege.
- Technology Quarterly and Proceedings of Society of Arts (Massachusetts).
- Quarterly Journal of the Royal Meteorological Society.

LECTURES & MEETINGS,

JANUARY TO MARCH, 1894.

JANUARY.

- 1 M. Exhibition Committee, 5 p.m.
- 6 S. Lecture to Sanitary Officers, Nottingham, 3 p.m.
- 10 W. Finance Committee, 4 p.m.
- 10 W. Council Meeting, 5 p.m.
- 10 W. Sessional Meeting at 8 p.m. R. Thorne Thorne, C.B., on Diphtheria: its causes & prevention.
- 13 S. Lecture to Sanitary Officers, Nottingham, 3 p.m.
- 20 S. Lecture to Sanitary Officers, Nottingham 3 p.m.
- 22 M. Museum Committee, 5 p.m.
- 26 F. Lecture to Sanitary Officers, London, 8 p.m.
- 27 S. Lecture to Sanitary Officers, Nottingham, 3 p.m.
- 30 Tu. Lecture to Sanitary Officers, London, 8 p.m.

FEBRUARY.

- 2 F. Lecture to Sanitary Officers, London, 8 p.m.
- 3 S. Lecture to Sanitary Officers, Nottingham, 3 p.m.
- 3 S. Visit of the Students to Friern Barnet Sewage Works, 3 p.m.
- 5 M. Exhibition Committee, 5 p.m.
- 6 Tu. Lecture to Sanitary Officers, London, 8 p.m.
- 7 W. Visit of the Students to the Disinfecting Station, &c., at St. Pancras, 3 p.m.
- 9 F. Lecture to Sanitary Officers, London, 8 p.m.

FEBRUARY (Continued).

- 10 S. Lecture to Sanitary Officers, Nottingham, 3 p.m.
- 10 S. Visit of the Students to Express Dairy Co.'s Farm at Fuchley, 3 p.m.
- 13 Tu. Lecture to Sanitary Officers, London, 8 p.m.
- 14 W. Visit of Inspection in the Parish of St. George's, Hanover Square, 2 p.m.
- 14 W. Finance Committee, 4 p.m.
- 14 W. Council Meeting, 5 p.m.
- 14 W. Sessional Meeting, 8 p.m. F. J. Waldo, M.D., on Sanitation of places where food is stored and prepared, in Bakehouses, Kitchens, and Restaurants.
- 16 F. Lecture to Sanitary Officers, London, 8 p.m.
- 17 S. Lecture to Sanitary Officers, Nottingham, 3 p.m.
- 17 S. Visit of the Students to Croydon Water Works and Beddington Sewage Farm, 2 p.m.
- 20 Tu. Lecture to Sanitary Officers, London, 8 p.m.
- 21 W. Visit of the Students to Guinness Buildings and Disinfecting Apparatus, Chelsea, 2 p.m.
- 23 F. Lecture to Sanitary Officers, London, 8 p.m.
- 26 M. Museum Committee, 5 p.m.
- 27 Tu. Lecture to Sanitary Officers, London, 8 p.m.
- 28 W. Visit of the Students to the Disinfecting Station, &c., at St. Pancras, 3 p.m.

MARCH.

- 2 F. Lecture to Ladies, 3 p.m.
 2 F. Lecture to Sanitary Officers, London, 8 p.m.
 3 S. Visit of the Students to the East London Water Works, Lea Bridge.
 5 M. Exhibition Committee, 5 p.m.
 6 Tu. Lecture to Ladies, 3 p.m.
 6 Tu. Lecture to Sanitary Officers, London, 8 p.m.
 7 W. Visit of Inspection in the Parish of St. George's, Hanover Square, 2 p.m.
 9 F. Lecture to Ladies, 3 p.m.
 9 F. Examination Committee, 5 p.m.
 9 F. Lecture to Sanitary Officers, London, 8 p.m.
 10 S. Visit of the Students to the Ealing Sewage and Destructor Works, 2 p.m.
 13 Tu. Lecture to Ladies, 3 p.m.

MARCH—(Continued).

- 13 Tu. Lecture to Sanitary Officers, London, 8 p.m.
 14 W. Finance Committee, 4 p.m.
 14 W. Council Meeting, 5 p.m.
 14 W. Sessional Meeting at 8 p.m. R. Thorne Thorne, C.B., on Cholera.
 14 W. Visit of the Students to Mitcham.
 16 F. Lecture to Sanitary Officers, London, 8 p.m.
 16 F.) Examination, Nottingham.
 17 S.)
 17 S. Visit of the Students to the Barking Sewage Outfall Works.
 19 M. Museum Committee, 5 p.m.
 20 Tu. Lecture to Sanitary Officers, London, 8 p.m.
 23 F. *Good Friday.*
 26 M. *Easter Monday.*
 30 F. Examination Committee, 5 p.m.
 30 F. Lecture to Sanitary Officers, London, 8 p.m.

A subsequent list will be published giving Meetings for April and following months.

LIST OF HON. FELLOWS, FELLOWS, MEMBERS, AND ASSOCIATES.

Additions and Corrections to December 31st, 1893.

HON. FELLOWS, 23; FELLOWS, 144;
 MEMBERS, 497; ASSOCIATES, 655.—TOTAL, 1319.

HONORARY FELLOWS.

AUSTRIA-HUNGARY.

- | Reg. No. | Date of Election. | Name |
|---------------------|-------------------|--|
| ¹¹ 1890. | June. | VON GRUBER, Prof. Franz Ritter, 1, <i>Tiefer Graben</i> 3, Vienna. |
| ¹⁶ 1890. | June. | FODOR, Dr., <i>Professor of Hygiene, Buda-Pesth.</i> |

BELGIUM.

- | | | |
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| ²² 1890. | June. | PUTZEYS, Dr. Felix, <i>Professor of Hygiene at the University of Liège.</i> |
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EGYPT.

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| ²³ 1890. | Dec. | GREENE, Dr. H. R., <i>Pasha, late Chief of the Sanitary Department, Cairo.</i> |
|---------------------|------|--|

FRANCE.

- | | | |
|---------------------|-------|---|
| ³¹ 1892. | Oct. | BECHMANN, M., <i>Ingenieur en Chef des Ponts et Chaussées; Directeur du Service d'Assainissement de Paris; 9, Place de l'Hôtel-de-Ville, Paris.</i> |
| ² 1890. | June. | BROUARDEL, Dr. Paul, <i>Prof. and Dean of the Faculty of Medicine, Paris.</i> |
| ³ 1890. | June. | CORNIL, Dr. V., <i>Senator, 19, Rue St. Guillaume, Paris.</i> |
| ⁴ 1890. | June. | PASTEUR, Prof. Louis, <i>25, Rue Dutot, Paris.</i> |
| ⁶ 1890. | June. | DE PIÉTRA SANTA, Dr. Prosper, <i>Hon Sec. of the French Society of Hygiene, 30, Rue du Dragon, Paris.</i> |
| ⁷ 1890. | June. | VALLIN, Dr. Émile, <i>Professor of Hygiene, Director of the School of the Military Sanitary Service, Lyons.</i> |

GERMANY.

- | | | |
|---------------------|-------|--|
| ⁵ 1890. | June. | HOBRECHT, Dr., <i>Engineer, Berlin.</i> |
| ¹⁰ 1890. | June. | VON HOFMANN, Prof. A. W., <i>Professor of Chemistry, Berlin.</i> |
| ¹¹ 1890. | June. | KOCH, Dr., <i>Director of the Hygienic Institute, Berlin.</i> |
| ¹² 1890. | June. | PETTENKOFER, Dr., <i>Professor of Hygiene at the University of Munich.</i> |
| ¹⁴ 1890. | June. | VIRCHOW, Dr. Rudolph, <i>Professor of Pathology, Berlin.</i> |

Reg. No.

Date of Election.

HOLLAND.

²¹1890. June. DE MEYER, Dr. van Overbeek, *Professor of Hygiene at the State University of Utrecht, Netherlands.*

ITALY.

¹⁹1890. June. BETOCCHI, Com^{te}. Alessandro, Prof., *Civil Engineer, Ministry of Public Works, Rome.*

ROUMANIA.

²²1890. June. FELIX, Dr. J., *Professor of Hygiene, Bucharest.*

RUSSIA.

²¹1890. June. STZOR, Comte de, *Architect-in-chief, Ligue de Cadets 21, St. Petersburg.*

SWITZERLAND.

²²1890. June. GUILLAUME, Dr., *Director of the Federal Bureau of Statistics, Berne.*

TURKEY.

²¹1890. June. ZOËROS, A., Pasha, *Professor at the School of Medicine, Director of the Bacteriological Institute, Secretary-General of the Administration of Public Medicine and Hygiene, Constantinople.*

UNITED STATES.

²³1890. June. BILLINGS, Dr. John S., *Washington, D.C.*
²⁷1890. June. WALCOTT, Dr. Henry P., *Cambridge, Massachusetts.*

FELLOWS (FELLOW SAN. INST.)

† Marked thus have passed the Examination of the Institute for Local Surveyors.

¹⁹1889. Dec. ABEL, SIR Frederick, BART., K.C.B., F.R.S., *Imperial Institute, Imperial Institute Road, S.W., (10, Cadogan Place, S.W.)*
⁵⁶¹1891. Dec. ACLAND, SIR Henry W., K.C.B., M.D., D.C.L., F.R.S., *Broad Street, Oxford.*
¹⁵1888. Oct. ADAMS, G. E. D'Arcy, M.D., D.P.H.CAMB., F.G.S., *1, Clifton Gardens, Maida Vale, W.*
¹⁶1888. Oct. ALBANY, H.R.H. THE DUCHESS OF, *Claremont, Esher.*
³¹⁶1888. Oct. ANGELL, Lewis, M.INST.C.E., F.K.C.LOND., *Town Hall, Stratford, E.*
²⁷1890. Feb. ANNINGSON, Bushell, M.A., M.D., *Cambridge.*
²³1889. Dec. ARMISTEAD, William, M.B., M.O.H., *Shelford, Cambridgeshire.*
⁴⁵1889. Dec. BARRY, Charles, F.S.A., *1, Victoria Street, S.W.*
³⁶⁵1888. Dec. BASS, Hamar Alfred, M.P., *Burton-on-Trent.*

Reg. No.

Date of Election.

³²1888. Oct. BELL, MAJOR C. W., J.P., D.L., *Yewhurst, East Grinstead, Sussex.*
³¹1888. Oct. BIRCH, R. W. Peregrine, M.INST.C.E., 5, *Queen Anne's Gate, S.W.*
³¹1889. Dec. BLONFIELD, SIR A. W., M.A., F.R.I.B.A., 6, *Montague Place, W.*
³¹1888. Oct. BLYTH, PROF. A. Wynter, M.R.C.S., L.S.A., *Court House, Marylebone, N.*
⁴¹1888. Oct. †BOULSOIS, H. Perey, M.INST.C.E., *City Engineer, Liverpool.*
⁴⁷1890. Jan. BRETT, A. T., M.D., M.O.H., *Watford House, Watford.*
³¹1888. Oct. BRIGHTEN, W. G., *108, Fenchurch Street, E.C.*
³²1889. Dec. BROCK, J. H. E., M.D., B.SC.LOND., *115, Adelaide Road, South Hampstead, N.W.*
³¹1888. Oct. BROWN, Harry, *The Elms, Worsley Road, Hampstead, N.W.*
⁴⁵1888. Oct. BROWNING, Benjamin, L.R.C.P., M.R.C.S., D.P.H.CAMB., M.O.H., *16, Royal Terrace, Weymouth.*
³⁴1888. Oct. BURBERY, J. Stone, *Trent House, West Cowes, I. of W.*
³²1888. Oct. BURDETT, Henry C., F.S.S., F.L.S., *The Lodge, Portchester Square, W.*
⁴⁷1888. Oct. BURGESS, Peter, M.A., M.B., *Driffield, Yorkshire.*
³¹1888. Oct. CAMBRIDGE, H.R.H. THE DUKE OF, K.G., *Gloucester House, Park Lane, W.*
³⁷1888. Oct. CAREW, R. R., *Carpenters, Watford, Herts.*
³¹1888. Oct. CARTER, R. Brudenell, F.R.C.S., *27, Queen Anne Street, Cavendish Square, W.*
¹⁵1888. Aug. CASSAL, Charles E., F.I.C., F.C.S., *Town Hall, Kensington, W., (Vestry Hall, Mount Street, Grosvenor Square, W.), (Brenne House, Wandsworth Common, S.W.).*
⁴²1890. May. CATES, Arthur, F.R.I.B.A., *7, Whitehall Yard, S.W.*
³¹⁴1888. Oct. COLLINS, H. H., F.R.I.B.A., *61, Old Broad Street, E.C., (5, Randolph Road, W.).*
³⁷1889. Dec. COLLINS, Wm. J., M.D., B.SC.LOND., D.P.H., *1, Albert Terrace, Regent's Park, N.W.*
³¹1888. Oct. COLMAN, J. J., M.P., *Carrow House, Norwich.*
⁷1888. Aug. CORFIELD, PROF. W. H., M.A., M.D.OXON., F.R.C.P. LOND., *19, Savile Row, W.*
³⁶1888. Oct. CRAWFORD, SIR Thomas, M.D., K.C.B., Q.H.S., LL.D., *5, St. John's Park, Blackheath, S.E.*
⁹⁵1893. June. †CRIMP, W. Santo, M.INST.C.E., F.G.S., *27, Great George Street, S.W.*
³⁷1888. Oct. CUTLER, Thomas William, F.R.I.B.A., *5, Queen Square, Bloomsbury, W.C.*
¹⁴¹1888. Oct. DAVEY, Alexander George, M.D., L.R.C.P., M.R.C.S., *9, Belvedere Street, Ryde, Isle of Wight.*
⁵¹⁹1891. Mar. DE COURCY MEADE, Thomas, M.INST.C.E., *Belmont, Muswell Hill, Hornsey, N.*
¹⁶³1888. Oct. DOULTON, SIR Henry, *Lambeth, S.W.*

Reg. No.	Date of Election.	Name and Address.
111	1890. Feb.	DOWSON, A., <i>Eastern Avenue, Reading.</i>
112	1888. Oct.	DOYLE, Patrick, C.E., F.G.S., F.R.S.E., F.R.A.S., M.R.I.A., <i>Indian Engineering, Calcutta.</i>
113	1888. Aug.	DUDFIELD, T. Orme, M.D., L.R.C.P., M.R.C.S., 14, <i>Ashburn Place, Cromwell Road, S.W.</i>
114	1888. Oct.	DYKE, T. J., F.R.C.S., <i>The Hollies, Merthyr Tydfil.</i>
115	1888. Oct.	EATON, John, M.D., <i>Montreal House, Cleator Moor, Cumberland.</i>
116	1888. Oct.	ELLIS, W. Horton, F.R.MET.SOC.
117	1890. Dec.	EWART, Joseph, M.D., F.R.C.P., J.P., <i>Montpelier House, Montpelier Terrace, Brighton, Sussex.</i>
118	1888. Oct.	FAYREH, SIR Joseph, K.C.S.I., M.D., F.R.C.P., F.R.C.S., LL.D., F.R.S., 53, <i>Wimpole Street, W.</i>
119	1888. Oct.	FIELD, Basil, B.A., 36, <i>Lincoln's Inn Fields, W.C.</i>
120	1888. Aug.	FIELD, Rogers, B.A., M.INST.C.E., 7, <i>Victoria Street, Westminster, S.W.</i>
121	1888. Oct.	FLOWER, MAJOR Lamorock, <i>Lee Conservancy Board, 12, Finsbury Circus, E.C. (48, Holland Road, W.).</i>
122	1888. Nov.	FORTESCUE, RT. HON. EARL, 48, <i>Grosvenor Gardens, S.W., (Castle Hill, South Molton, Devon).</i>
123	1888. Aug.	GALTON, SIR Douglas, K.C.B., D.C.L., M.D., F.R.S., 12, <i>Chester Street, Grosvenor Place, S.W.</i>
124	1888. Oct.	GOWERS, Wm. Richard, M.B., 50, <i>Queen Anne St., W.</i>
125	1888. Oct.	GRIMSHAW, Thomas Wrigley, M.D., <i>Priorsland, Carrickmines, Dublin.</i>
126	1893. Jan.	HALL, Edwin Thomas, F.R.I.B.A., 57, <i>Moorgate Street, E.C.</i>
127	1888. Oct.	HARKER, J., M.D., J.P., <i>Hazel Grove, Carnforth, Lanc.</i>
128	1888. Oct.	HARRIS, Thomas, F.R.I.B.A., 6, <i>Southampton Street, Bloomsbury Square, W.C.</i>
129	1890. Jan.	HARRISON, C., M.D., D.P.H.CAMB., <i>Newland, Lincoln.</i>
130	1888. Oct.	HART, Ernest, 38, <i>Wimpole Street, W.</i>
131	1888. Oct.	HAVILAND, A., M.R.C.S., <i>Egremont House, Delamere Terrace, W.</i>
132	1890. June.	HEHIR, Patrick, M.D., F.R.C.S., D.P.H., <i>Hyderabad, Deccan, India.</i>
133	1890. Jan.	HILL, Alfred, M.D., M.R.C.S., L.S.A., <i>The Council House, Birmingham.</i>
134	1893. June.	HILL, Prof. Alfred Bostock, M.D., D.P.H., M.O.H., 14, <i>Temple Street, Birmingham; and Elmhurst, Olton, Birmingham.</i>
135	1888. Dec.	HIME, Thomas Whiteside, A.B., M.B., L.R.C.S., 54, <i>Horton Road, Bradford.</i>
136	1888. Oct.	HODSON, George, M.INST.C.E., F.G.S., <i>Abbey Buildings, Princes Street, Westminster, S.W. (Loughborough).</i>
137	1889. Dec.	HOPE, E. W., M.D., D.P.H., <i>Municipal Offices, Liverpool.</i>
138	1888. Oct.	HUMPHRY, SIR G. M., M.D., F.R.S., <i>Cambridge.</i>
139	1889. Dec.	HUNTER, SIR William Guyer, K.C.M.G., M.D., F.R.C.P., 21, <i>Norfolk Crescent, Hyde Park, W.</i>

Reg. No.	Date of Election.	Name and Address.
140	1890. Jan.	ILIFFE, William, M.R.C.S., 41, <i>Osmaston Street, Derby.</i>
141	1888. Oct.	JONES, LIEUT.-COL. A. S., U. C., ASSOC.M.INST.C.E., <i>Culverside, Carshalton, Surrey.</i>
142	1888. Aug.	JUDGE, Mark H., A.R.I.B.A., 15, <i>Connaught Square, W.</i>
143	1888. Oct.	KELLY, Charles, M.D., F.R.C.P., <i>Ellesmere, Gratwicke Road, Worthing.</i>
144	1888. Dec.	KINGDON, J. A., <i>Grocer's Hall, E.C.</i>
145	1888. Oct.	LATHAM, Baldwin, M.INST.C.E., F.R.MET.SOC., F.G.S., F.S.S., 13, <i>Victoria Street, S.W., (Duppas House, Croydon).</i>
146	1888. Oct.	LAW, Henry, M.INST.C.E., F.R.MET.SOC., 17, <i>Victoria Street, S.W., (70, St. George's Road, Pimlico).</i>
147	1889. Dec.	LAWRENCE, SIR Trevor, BART., M.P., 57, <i>Prince's Gate, S.W.</i>
148	1888. Oct.	LEAF, Charles J., F.L.S., F.S.A., 6, <i>Sussex Place, Regent's Park, N.W.</i>
149	1888. Dec.	LEAF, W., LITT.DOC., 6, <i>Sussex Place, Regent's Park, N.W.</i>
150	1893. June.	LEMON, James, M.INST.C.E., F.R.I.B.A., F.S.I., F.G.S., <i>Lansdowne House, Southampton; and Palace Chambers, Westminster, S.W.</i>
151	1888. Aug.	LEWIS, Prof. T. Hayter, F.S.A., F.R.I.B.A., 12, <i>Kensington Gardens Square, S.W.</i>
152	1888. Oct.	LIVESEY, J., M.INST.C.E., 2, <i>Victoria Mansions, Victoria Street, Westminster, S.W.</i>
153	1888. Dec.	LONGSTAFF, G. B., M.D., M.A., D.P.H., <i>Highlands, Putney Heath, S.W., (Twitchen, Morthoe, R.S.O., N. Devon).</i>
154	1888. Dec.	LEBOCK, RT. HON. SIR John, BART., M.P., D.C.L., F.R.S., <i>Lombard Street, E.C.</i>
155	1888. Oct.	MACKAY, John Alexander Dixie, B.A.OXON., 1, <i>Westbourne Terrace, W.</i>
156	1888. Oct.	MANSERGH, James, M.INST.C.E., 5, <i>Victoria Street, S.W.</i>
157	1893. Jan.	†MAWBEX, Enoch George, ASSOC.M.INST.C.E., <i>Town Hall, Leicester.</i>
158	1888. Oct.	MEATH, RT. HON. EARL OF, 83, <i>Lancaster Gate, Hyde Park, W.</i>
159	1892. Oct.	MIDDLETON, Reginald Empson, M.INST.C.E., F.S.I., 17, <i>Victoria Street, S.W.</i>
160	1890. Jan.	MURPHY, Shirley F., M.R.C.S., 22, <i>Endsleigh Street, Tavistock Square, W.C.</i>
161	1890. June.	NEWSHOLME, Arthur, M.D., D.P.H., M.R.C.P., M.O.H., 15, <i>College Road, Brighton, (Town Hall, Brighton).</i>
162	1888. Dec.	NIGHTINGALE, Miss F., 10, <i>South Street, Grosvenor Square, W.</i>
163	1890. May.	NORTH, Samuel W., M.R.C.S., F.G.S., M.O.H., <i>Mickle-gate, York.</i>
164	1888. Aug.	NORTHUMBERLAND, HIS GRACE THE DUKE OF, K.G., D.C.L., LL.D., 2, <i>Grosvenor Place, S.W.</i>

Reg. No.	Date of Election.	Name and Address.
351	1890. Nov.	NOTTER, PROF. J. LAKE, M.A., M.D., D.P.H., <i>West Cliff, Woolston, Southampton.</i>
221	1888. Oct.	OHREN, Magnus, ASSOC.M.INST.C.E., F.C.S., <i>Lower Sydenham, S.E.</i>
322	1888. Oct.	OLLARD, J. F., <i>Marazion, Cornwall.</i>
222	1888. Oct.	OLLARD, William Ludlam, <i>Musticott House, Walsoken, Wisbeach, Norfolk.</i>
223	1889. Nov.	PAGET, Charles Edward, M.R.C.S., D.P.H., M.O.H., <i>Town Hall, Salford.</i>
223	1888. Oct.	PAGET, J., J.P., <i>Staffynwood, Mansfield.</i>
12	1888. Aug.	PARKES, Charles Henry, <i>Netherfield, Weybridge.</i>
221	1888. Oct.	PARKES, Louis Coltman, M.D., M.R.C.S., D.P.H., 61, <i>Cadogan Square, S.W.</i>
223	1888. Oct.	PEAGS, J. Wallace, ASSOC.M.INST.C.E., 9, <i>Welbeck Mansions, Cadogan Terrace, S.W., (Southbourne Lodge, near Christchurch, Hants).</i>
223	1888. Oct.	PLUMBE, Rowland, F.R.I.B.A., 13, <i>Fitzroy Square, W.</i>
11	1888. Aug.	POORE, George Vivian, M.D., F.R.C.P., 30, <i>Wimpole Street, W.</i>
401	1890. Jan.	POWELL, SIR Francis Sharp, BART., M.P., 1, <i>Cambridge Square, W., (Horton Old Hall, Bradford).</i>
227	1888. Oct.	PRITCHARD, E., M.INST.C.E., F.O.S., 1, <i>Victoria Street, S.W., (37, Waterloo Street, Birmingham).</i>
211	1888. Oct.	RAWLINSON, SIR Robert, K.C.B., M.INST.C.E., 11, <i>The Boltons, Brompton, S.W.</i>
210	1890. Feb.	REDWOOD, T. Hall, M.D., <i>The Lawn, Rhymney.</i>
603	1891. Oct.	REID, George, M.D., D.P.H., <i>County Medical Officer of Health, Stafford.</i>
323	1888. Oct.	REYNOLDS, PROF. J. Russell, M.D., F.R.C.P., F.R.S., 38, <i>Grosvenor Street, W.</i>
356	1888. Nov.	RICHARDSON, SIR Benjamin Ward, M.D., LL.D., F.R.S., 25, <i>Manchester Square, W.</i>
215	1888. Oct.	RICHARDSON, J., M.INST.C.E., <i>Methley Park, Leeds.</i>
252	1890. Jan.	RIPON, MOST HON. MARQUESS OF, K.G., D.C.L., F.R.S., 9, <i>Chelsea Embankment, S.W.</i>
216	1888. Oct.	ROBINS, Edward Cookworthy, F.S.A., F.R.I.B.A., 46, <i>Berners Street, W.</i>
217	1888. Oct.	ROBINSON, PROF. Henry, M.INST.C.E., 13, <i>Victoria Street, S.W., (54, Boundary Road, N.W.).</i>
621	1892. Oct.	ROCHE, Antony, M.R.C.P.I., L.R.C.S.I., 72, <i>Harcourt Street, Dublin, Professor of Hygiene and also of Medical Jurisprudence in the Catholic University, Examiner in Sanitary Science, Royal University, Dublin.</i>
213	1888. Oct.	RUSSELL, HON. F. A. Rollo., F.R.MET.SOC., <i>Dunrozel, Haslemere.</i>
321	1888. Oct.	RUSSELL, James A., M.A., F.R.C.P.EDIN., M.B., B.SC., F.R.S.E., <i>Woodville, Canaan Lane, Edinburgh.</i>
256	1890. Jan.	RUSSELL, J. B., M.D., LL.D., M.O.H., <i>Glasgow.</i>
417	1889. Jan.	SALT, Thomas, M.P., 85, <i>St. George's Square, S.W.</i>

Reg. No.	Date of Election.	Name and Address.
251	1889. Dec.	SEATON, Edward Cox, M.D., F.R.C.S., <i>The Limes, 56, North Side, Clapham Common, S.W.</i>
223	1888. Oct.	SHAW, George, 20, <i>King Edward Street, Newgate Street, E.C.</i>
271	1888. Dec.	SIEVEKING, SIR E. II., M.D., 17, <i>Manchester Sq., W.</i>
217	1889. Nov.	SMITH, James, Osborne, A.R.I.B.A., 34, <i>Southampton Street, Strand, W.C., (65, Frithfield Gardens, Uxbridge Road, W.).</i>
422	1892. Oct.	SMITH, William Howard, ASSOC.M.INST.C.E., <i>City Engineer and Surveyor, Carlisle.</i>
257	1888. Oct.	SMITH, PROF. William Robert, M.D., F.R.S.E., D.SC., <i>Barrister-at-Law, 74, Great Russell Street, W.C., (Plumstead, Kent).</i>
254	1888. Oct.	SNELL, H. Saxon, F.R.I.B.A., 22, <i>Southampton Buildings, W.C., (Lynden Lodge, Elmfield Rd., Bromley, Kent).</i>
460	1889. Mar.	STEPHENS, Henry C., M.P., <i>Avenue House, Finchley.</i>
260	1888. Oct.	STRONG, Henry John, M.D., <i>Colonnade House, The Steyne, Worthing.</i>
261	1888. Oct.	SYKES, J. F. J., D.SC., M.D., 40, <i>Camden Square, N.W.</i>
4	1888. Aug.	SYMONS, G. J., F.R.S., 62, <i>Camden Square, N.W.</i>
255	1889. Dec.	TAYLOR, J. Stopford, M.D., 6, <i>Grove Park, Liverpool.</i>
250	1888. Oct.	TEMPLE, RIGHT REV. Frederick, D.D., LORD BISHOP OF LONDON, <i>The Palace, Fulham, S.W.</i>
221	1889. Dec.	THOMPSON, SIR Henry, M.B., 35, <i>Wimpole Street, W.</i>
252	1888. Oct.	THORNE, R. Thorne, C.B., M.B., F.R.C.P., F.R.S., 45, <i>Inverness Terrace, W.</i>
253	1888. Oct.	TURNER, Ernest, F.R.I.B.A., 246, <i>Regent Street, W.</i>
4	1888. Aug.	TWINING, Thomas, <i>Perryn House, Twickenham.</i>
410	1891. Nov.	VACHER, Francis, F.R.C.S., <i>Birkenhead.</i>
261	1889. Dec.	WALFORD, Edward, M.D., D.P.H.CAMB., M.R.C.S., M.O.H., <i>Town Hall, Cardiff.</i>
225	1888. Oct.	WARING, COL. G. E., JUN., M.INST.C.E., <i>Newport, Rhode Island, U.S. America.</i>
226	1888. Oct.	WATERHOUSE, Alfred, R.A., 20, <i>New Cavendish Street, W.</i>
2	1888. Aug.	WESTMINSTER, HIS GRACE THE DUKE OF, K.G., <i>Grosvenor House, W.</i>
227	1888. Oct.	WHITELEGGE, Benjamin Arthur, M.D., B.SC., D.P.H.CAMB., <i>St. John's, Wakefield.</i>
224	1888. Oct.	WILLIAMS, Dawson, M.D., 25, <i>Old Burlington St., W.</i>
220	1888. Oct.	WILSON, George, M.A., M.D., F.R.S.E., 7, <i>Avon Place, Warwick.</i>
415	1889. Jan.	WIX, H. A., 3, <i>King's Bench Walk, Temple, E.C.</i>

ORDINARY MEMBERS (MEM. SAN. INST.)

† Marked thus have passed the Examination of the Institute for Local Surveyors.

‡ Marked thus have passed the Examination of the Institute for Inspectors of Nuisances.

Reg. No.	Date of Election.	Name and Address
461	1889. Mar.	ADAMS, James, M.D., M.O.H., <i>Springwell, Barnes, S.W.</i>
653	1891. Dec.	ADAMS, PROF. Henry, M.INST.C.E., F.S.I., 60, <i>Queen Victoria Street, E.C.</i>
463	1889. Mar.	ADKINS, George, L.R.C.P.LOND., D.P.H., M.O.H., <i>The Elms, Paignton, South Devon.</i>
431	1889. Feb.	ALDWINCKLE, Thomas William, F.R.I.B.A., 1, <i>Victoria Street, S.W.</i>
332	1888. Oct.	ALEXANDER, W. C., <i>Aubrey House, Campden Hill, W.</i>
21	1888. Oct.	AMES, H. St. Vincent, M.A., <i>Cote House, Westbury-on-Trym, Bristol.</i>
22	1888. Oct.	ANDERSON, Geo., C.E., 35a, <i>Great George Street, Westminster, S.W.</i>
410	1889. Jan.	†ANDERSON, John Reid, <i>The Cottage, Gibson's Hill, Norwood, S.E.</i>
611	1890. Dec.	ANDERSON, John, ASSOC.M.INST.C.E., <i>Town Hall, Montrose, N.B.</i>
23	1888. Oct.	ANDRESEN, August F., <i>Priory Cottage, Mill Lane, West Hampstead, N.W.</i>
24	1888. Oct.	ANDREW, CAPT. C. W., <i>Rutland House, 5, The Terrace, Kennington Park, S.E.</i>
433	1889. Mar.	ANDREWS, G. R., <i>Surveyor, Johannesburg, South Africa.</i>
25	1888. Oct.	ANDREWS, Jonathan, 10A, <i>Mount Street, Berkeley Square, W.</i>
26	1888. Oct.	†ANGELL, John A., ASSOC.M.INST.C.E., <i>Borough Engineers' Office, West Ham, E.</i>
535	1889. Nov.	ANSON, Frederick Henry, M.A., ASSOC.M.INST.C.E., 15, <i>Dean's Yard, Westminster, S.W.</i>
732	1892. Dec.	ARGLES, Frank, M.R.C.P., M.O.H., <i>Wanstead, Essex.</i>
616	1891. Oct.	ARMSTRONG, Henry E., D.HYG., M.R.C.S., L.S.A., M.O.H., <i>The Health Department, Town Hall, Newcastle-on-Tyne.</i>
29	1888. Oct.	ARMSTRONG, PROF. H. E., PH.D., F.R.S., 55, <i>Granville Park, Lewisham, S.E.</i>
601	1890. Oct.	ASPINALL, Miles, <i>Borough Engineer and Surveyor's Office, Worthing.</i>
652	1891. Nov.	ATKINS, Alfred, ASSOC.M.INST.C.E., F.R.I.B.A., <i>Wanganui, New Zealand.</i>
31	1888. Oct.	AUMONIER, F., 110, <i>High Street, Manchester Square, W.</i>
674	1892. Jan.	BAILEY, Thomas Castley, L.R.C.P., M.R.C.S., M.O.H., <i>Crewe, Cheshire.</i>

Reg. No.	Date of Election.	Name and Address
606	1892. Mar.	BAINÉ, Laurence Augustus, M.D., D.P.H., <i>Dipton, Lintz Green, Durham.</i>
41	1888. Oct.	BAKER, SIR Benjamin, K.C.M.G., LL.D., F.R.S., M.INST.C.E., 2, <i>Queen's Square Place, Westminster.</i>
42	1888. Oct.	BAKER, R., <i>Ballingdon House, Green Lanes, N.</i>
603	1892. Feb.	BARCLAY, Arthur, ASSOC.M.INST.C.E., 34, <i>Fitzroy Rd., Primrose Hill, N.W.</i>
701	1893. Nov.	BARRETT, Ernest James, ASSOC.M.INST.C.E., <i>Borough Surveyor's Office, Richmond, Surrey.</i>
611	1891. July	BARWISE, Sidney, M.D., D.P.H., M.O.H., <i>Derbyshire County Council, 61, Uttoxeter New Road, Derby.</i>
702	1893. Oct.	†BASSETT, Gilbert Thomas, <i>Highfield Road, Salfley, Birmingham.</i>
501	1890. May.	‡BATEMAN, James, <i>Civil Engineer, 27, Exchange Buildings, Johannesburg, South Africa.</i>
47	1888. Oct.	BAUGH, Alfred C., <i>Ejerton Street, Wrexham, North Wales.</i>
44	1888. Oct.	BEAN, Alexander Thomas, 7, <i>Victoria Street, S.W.</i>
576	1888. Dec.	†BEARD, E. T., <i>Wallsend, Pevensey, Sussex.</i>
351	1888. Oct.	BEARD, George, <i>Thickthorn, Kenilworth.</i>
12	1888. Oct.	BEARD, Neville, <i>The Mount, Ashbourne.</i>
561	1889. Dec.	BEARDMORE, George Russell, L.R.C.P.LOND., M.R.C.S., L.S.A., D.P.H.CAMB., <i>Warwick House, Upper Street, Islington, N.</i>
50	1888. Oct.	BEDDOE, John, B.A., M.D., F.R.S., <i>The Chantry, Bradford-on-Avon.</i>
51	1888. Oct.	BELL, Thomas, L.R.C.P.LOND., <i>Uppingham, Rutland.</i>
613	1888. Dec.	‡BENJAMIN, Horace Bernton, F.R.G.S., 28, <i>Albemarle Street, W., (37, Upper Grosvenor Street, W.).</i>
52	1888. Oct.	BENNETT, Hugh, M.R.C.S., <i>Builth Wells, Brecon.</i>
600	1892. Mar.	BENNETT, William Benjamin George, ASSOC.M.INST.C.E., <i>Cranleigh, Portswood Road, Southampton.</i>
33	1888. Oct.	BERNARD, William Larkins, F.R.I.B.A., 3, <i>St. Stephen's Chambers, Baldwin Street, Bristol.</i>
51	1888. Oct.	†BERRINGTON, R. E. W., ASSOC.M.INST.C.E., <i>Graisley, Wolverhampton.</i>
601	1892. Mar.	BERRY, William Walton, ASSOC.M.INST.C.E., <i>Eccles, near Manchester.</i>
59	1888. Oct.	BICKERSTETH, E. R., F.R.C.S., 2, <i>Rodney Street, Liverpool.</i>
619	1891. Mar.	BILLINGHAM, J. A. L., <i>Surveyor, R. Engineers, Royal Engineer Office, Colombo.</i>
57	1888. Oct.	BLACK, SURG.-MAJOR W. G., 2, <i>George Square, Edinburgh.</i>
467	1889. Mar.	BLAIR, William Nisbet, ASSOC.M.INST.C.E., <i>Vestry Hall, Pancras Road, N.W.</i>
55	1888. Oct.	BLASHILL, T., F.R.I.B.A., <i>Superintending Architect, London County Council, Spring Gardens, S.W.</i>
730	1892. Oct.	BLIZARD, John Henry, ASSOC.M.INST.C.E., F.S.I., <i>Castle Lane, Southampton.</i>

Reg. No.	Date of Election.	MEMBERS.
466	1889. Mar.	BLUMER, Frederick Milnes, B.A., M.B., M.O.H., <i>St. Mary's Grove, Stafford.</i>
417	1889. Feb.	BOLDING, John T., 19, <i>South Moulton Street, W.</i>
60	1888. Oct.	BOND, Fredk. Adolphus, M.B., C.M.EDIN., D.P.H.EDIN., <i>Hetton Lodge, Ferndale, Tunbridge Wells.</i>
553	1890. Apr.	BOONBYER, Philip, M.D., M.R.C.S., M.O.H., <i>The Guildhall, Nottingham.</i>
377	1888. Dec.	BOSTOCK, H., <i>The Oaklands, Rowley Avenue, Stafford.</i>
62	1888. Oct.	BOX, M. H.
61	1888. Oct.	BRADSHAW, James D., B.A., M.B., M.R.C.P., M.R.C.S., 30, <i>George Street, Hanover Square, W.</i>
633	1891. July.	BRAÇA, João Francisco, L.S.A., F.C.S., F.L.S., F.O.S., D.P.H., <i>Glen Villa, Sunbury-on-Thames.</i>
469	1889. Mar.	BRENSER, George Reith, M.D., D.P.H., <i>Bensham Lodge, West Croydon, S.W.</i>
62	1888. Oct.	BRIDGES, J. H., M.B., F.R.C.P., 28, <i>Ladbroke Gardens, Notting Hill, W.</i>
617	1891. Jan.	BRIGHT, Philip, ASSOC.M.INST.C.E., 2, <i>Newgate Street, E.C.</i>
377	1888. Nov.	BRISTOWE, John Syer, M.D., F.R.S., 13, <i>Old Burlington Street, W.</i>
595	1889. Apr.	BROME, John Shanks, ASSOC.M.INST.C.E., <i>Town Hall, Whitehaven, Cumberland.</i>
493	1889. Mar.	BROOKE, Walter, ASSOC.M.INST.C.E., <i>Albany Buildings, 39, Victoria Street, Westminster, S.W.</i>
517	1889. Apr.	BROOKE, Wm., M.D., M.O.H., <i>Crompton Local Board, Shaw, near Oldham.</i>
61	1892. Jan.	BROWN, Arthur, M.INST.C.E., <i>The Guildhall, Nottingham.</i>
724	1892. Oct.	†BROWN, Edwin, <i>Local Board Offices, Burgess Hill.</i>
703	1893. Apr.	BROWN, Thomas, <i>Alderman Norfolk County Council, King's Lynn, Norfolk.</i>
63	1888. Oct.	BROWN, William Ibbs, <i>St. Michael's Avenue and Guildhall, Northampton.</i>
774	1893. July.	BROWNRIDGE, Charles, ASSOC.M.INST.C.E., F.G.S., <i>Borough Engineer of Birkenhead, Cheshire.</i>
70	1888. Oct.	BRYANT, Thomas, F.R.C.S., 65, <i>Grosvenor Street, W.</i>
379	1888. Dec.	BUCKTON, Mrs. 27, <i>Ladbroke Square, W.</i>
623	1891. May.	BULLIS, William Daniel, <i>Surveyor, 21, Finsbury Pavement, E.C.</i>
633	1891. July.	BULSTRODE, Herbert Timbrell, M.A., M.D., D.P.H., <i>Local Government Board, Whitehall, S.W.</i>
416	1888. Dec.	†BUNTEX, Charles, <i>St. Bernard, Cambridge Road, Aldershot.</i>
552	1890. Apr.	BURDWOOD, James Watson, L.F.P.S., M.O.H., <i>West Cottage, Bourne, Lincoln.</i>
711	1892. May.	BURGESS, Samuel Edwin, ASSOC.M.INST.C.E., <i>Town Hall, Banbury.</i>
330	1888. Dec.	BURMESTER, Miss E., 13, <i>Sussex Square, Hyde Park, W.</i>
567	1890. Jan.	BURR, Alfred, F.R.I.B.A., 85, <i>Gower Street, W.C.</i>

Reg. No.	Date of Election.	MEMBERS.
311	1889. Apr.	BURTON, Samuel Hubert, F.R.C.S., M.O.H., 50, <i>St. Giles's Street, Norwich.</i>
49	1889. Jan.	†BURTON, W. Kinninmond, ASSOC.M.INST.C.E., <i>Professor of Sanitary Engineering, Imperial University, Tokio, Japan.</i>
377	1893. July.	†BUSHBRIDGE, Harold, 96, <i>Herbert Road, Plumstead, Kent.</i>
711	1892. June.	BUTTON, Fred Smith, ASSOC.M.INST.C.E., <i>Town Hall, and 13, Palatine Square, Burnley.</i>
72	1893. Oct.	†CAMERON, Donald, <i>City Engineer, 1, Sylvan Road, Exeter.</i>
63	1889. Feb.	†CAMPBELL, Adam Horsburgh, ASSOC.M.INST.C.E., <i>Borough Surveyor's Office, Stratford-on-Avon.</i>
7	1888. Oct.	CAMPBELL, Charles, 7, <i>Grange Road, Sheffield.</i>
22	1888. Oct.	CAMPBELL, HON. Dudley, 1, <i>Mitre Court Buildings, Temple.</i>
49	1889. Mar.	CAMPBELL, Kenneth Findlater, ASSOC.M.INST.C.E., <i>Borough Engineer, Stockton-on-Tees.</i>
70	1892. Nov.	CANTY, William Henry, 24, <i>Cambridge Street, Prospect Hill, Tunbridge Wells, Kent.</i>
72	1888. Oct.	CARLINE, John, ASSOC.M.INST.C.E., <i>Board of Works, Lewisham, S.E.</i>
34	1888. Nov.	CARRITT, Ernest, 18 & 19, <i>Great St. Helens, E.C.</i>
63	1892. Feb.	CARROLL, Joseph, M.B., C.M., D.P.H., M.O.H., 172, <i>Station Road, Ilkeston.</i>
70	1892. May.	CAWS, Edward Isaac, <i>Coronation, Sea View, Isle of Wight.</i>
67	1890. Nov.	CHART, Robert Masters, <i>Mitcham, Surrey.</i>
9	1888. Oct.	CHATTERTON, George, M.INST.C.E., 46, <i>Queen Anne's Gate, S.W.</i>
2	1888. Oct.	CHATTOCK, Miss Frances C., <i>Solihull, Birmingham.</i>
73	1893. Jan.	CHEWETT, James Henry, C.E., <i>of Toronto University, Toronto, Ontario, Canada; and The Nest, Poplar Plains Road, Toronto.</i>
2	1888. Oct.	CLARKE, James Wright, 8, <i>Salcott Road, Wandsworth, S.W.</i>
9	1888. Oct.	CLARKSON, J. W., M.R.C.S.E., L.R.C.P.L., <i>c/o Messrs. H. S. King & Co., Pall Mall, S.W.</i>
334	1890. Oct.	†CLOTHIER, Samuel Thompson, <i>Street, Somerset.</i>
701	1892. Apr.	COALES, Herbert George, ASSOC.M.INST.C.E., <i>Market Harborough, Leicester.</i>
5	1888. Oct.	COATES, C., F.R.C.P., 10, <i>Circus, Bath.</i>
66	1888. Oct.	COCK, Frederick, M.D., 1, <i>Porchester Houses, Porchester Square, W.</i>
312	1888. Oct.	COLLINGRIDGE, W., M.A., M.D., D.P.H., <i>Port of London Sanitary Offices, Greenwich, S.E.</i>
330	1888. Oct.	COLLINSON, John, 21, <i>Ashley Gardens, Victoria Street, S.W.</i>
2	1888. Oct.	†COMBER, P. F., M.INST.C.E.IRELAND, 19, <i>Lower Leeson Street, Dublin.</i>

Reg. No.	Date of Election.	
729	1892. Sept.	†CONNAL, Eben, M.INST.C.E., 49, <i>Kerrland Terrace, Hillhead, Glasgow, Lanark, Scotland.</i>
92	1888. Oct.	†COOPER, C. H., ASSOC.M.INST.C.E., <i>Local Board Offices, Wimbledon, S.W.</i>
90	1888. Oct.	COOPER, Francis A., ASSOC.M.INST.C.E., <i>Director of Public Works, and Resident Engineer, Hong Kong, (c/o H. F. Cooper, Nottingham and Notts Bank, Newark).</i>
313	1888. Nov.	COOPER, John, jun., <i>Croydon, S.W.</i>
412	1889. Jan.	†COOPER, William, 32, <i>Cheetham Street, Cheetham, Manchester.</i>
91	1888. Oct.	CORBETT, Joseph, <i>Borough Engineer, Town Hall, Salford.</i>
666	1891. Dec.	CORNER, John, 83, <i>Lavender Sweep, Clapham Junction, S.W.</i>
644	1892. Mar.	CORNISH, William Robert, SURG.-GEN., F.R.C.S., C.I.E., Q.H.P., 8, <i>Creswell Gardens, S.W.</i>
92	1888. Oct.	CORSAN, John R., 80, <i>Gray's Inn Road, W.C.</i>
93	1888. Oct.	COURTNEY, MAJOR D. C., R.E., 22, <i>Collingham Gardens, Kensington, S.W.</i>
515	1889. Oct.	COWAN, Peter Chalmers, B.SC. (EDIN.), ASSOC.M.INST.C.E., <i>County Surveyor, Downpatrick.</i>
94	1888. Oct.	COWTAN, Frank, 309, <i>Oxford Street, W.</i>
337	1890. Oct.	†CRAIG, G. A., <i>Market Drayton, Salop.</i>
95	1888. Oct.	CRANBROOK, THE RT. HON. VISCOUNT, G.C.S.I., 17, <i>Grosvenor Crescent, S.W.</i>
733	1893. Jan.	CREER, Alfred, ASSOC.M.INST.C.E., <i>City Engineer, The Guildhall, York.</i>
310	1889. June.	CREGEEN, Hugh Stowell, 42, <i>Freclands Road, Bromley, Kent.</i>
631	1891. June.	CRISP, James Gregory, <i>Angle Villa, Leckhampton, Cheltenham.</i>
94	1888. Oct.	CROWLEY, Frederick, <i>Ashdell, Alton, Hants.</i>
472	1889. Mar.	CUFF, Robert, M.B., M.R.C.S., M.O.H., 28, <i>Huntriss Row, Scarborough.</i>
100	1888. Oct.	†CURWEN, John F., F.R.I.B.A., 51, <i>Highgate, Kendal.</i>
377	1890. Mar.	DABBS, George Henry Roque, M.D., M.R.C.S., M.O.H., <i>Highfields, Shanklin, I. of Wight.</i>
103	1888. Oct.	†DARCH, John, 74, <i>Sarsfield Road, Balham, S.W.</i>
703	1892. May.	DAVIS, Alfred T., ASSOC.M.INST.C.E., <i>Shirchall, Shrewsbury.</i>
732	1893. Jan.	DAVIS, George Brown, <i>Cambridge House, South Lambeth Road, S.W.</i>
399	1890. Oct.	†DAVIS, Neville Brookes, ASSOC.M.INST.C.E., P.A.SURV.INST., <i>Water Works Office, Leicester.</i>
106	1888. Oct.	DAWSON, Charles James, F.R.I.B.A., <i>Surveyor to the Local Board, Barking, Essex.</i>
105	1888. Oct.	DAY, Ernest, F.R.I.B.A., 5, <i>Foregate Street, Worcester.</i>
731	1892. Oct.	†DAYE, John, 117, <i>Arran Street, Roath, Cardiff.</i>

Reg. No.	Date of Election.	
101	1888. Oct.	DEBENHAM, F. G., <i>Cheshunt Park, Herts.</i>
102	1888. Oct.	DE CHAUMONT, Miss Anna Kennedy Francois, 86, <i>Abingdon Road, Kensington, W.</i>
734	1892. Sept.	†DENDY, William Cooper, P.A.S.I., <i>Surveyors' Department, Lambeth Vestry, Kennington Green, S.E.</i>
104	1888. Oct.	DENNIS, Nelson F., <i>Town Surveyor, West Cowes.</i>
607	1892. Apr.	DICKINSON, Thomas Rusholm, ASSOC.M.INST.C.E., <i>Borough Surveyor, Hertford, Herts.</i>
604	1892. Jan.	DICKINSON, William Gilbert, L.R.C.P., M.R.C.S., D.P.H., 1, <i>Wimbledon Road, Southfields, Wandsworth, S.W.</i>
102	1889. May.	DIXEY, Harry Edward, M.D., <i>Woodjute, Great Malvern.</i>
735	1892. Sept.	†DIXON, Francis Edward, <i>Local Board Offices, Bamber Bridge in Walton-le-Dale, Lancaster.</i>
605	1891. May.	DODD, Peter, ASSOC.M.INST.C.E., <i>Engineer and Surveyor, Wandsworth, S.W.</i>
90	1889. Apr.	DONOVAN, Dennis D., L.R.C.P., L.R.C.S., <i>Superintendent Medical Officer of Health, City of Cork.</i>
102	1888. Oct.	DOULTON, James, <i>Lambeth, S.W.</i>
603	1891. Jan.	DRAYSON, Walter B. H., 2, <i>Newgate Street, E.C.</i>
98	1889. Apr.	EATON-SHORE, George, ASSOC.M.INST.C.E., <i>Borough Engineer, 190, Edlestone Road, Crewe.</i>
311	1888. Oct.	ECCLES, Miss Jane Helen, 3, <i>Dean's Yard, Westminster, S.W.</i>
601	1891. Feb.	EDGE, Frederic James, ASSOC.M.INST.C.E., <i>Public Offices, Uclator Moor, Cumberland.</i>
736	1893. Oct.	†ELFORD, Ernest J., <i>The City Engineer's Office, Norwich, Norfolk.</i>
104	1888. Oct.	ELFORD, John, <i>Borough Surveyor, Poole, Dorset.</i>
737	1892. June.	ELLIOT, SURG.-LIEUT. Robert Henry, M.B., B.S.LOND., F.R.C.S.ENG., D.P.H.CANTAB., L.R.C.P.LOND., <i>Madras Infantry, Deccan, India.</i>
303	1888. Dec.	EMERSON, W., F.R.I.B.A., 8, <i>The Sanctuary, S.W.</i>
602	1892. Mar.	ENTWISTLE, Henry, <i>Local Board Offices, Swinton, Lancaster.</i>
103	1889. Jan.	ERICHSEN, J. Eric, F.R.S., 6, <i>Cavendish Place, W.</i>
309	1888. Nov.	EVERS, SURG.-LIEUT.-COL. B., M.D., C.M., D.P.H.CAMB. <i>care of Messrs. Watson Bros., 27, Leadenhall Street, E.C.</i>
102	1889. Jan.	FARRER, LORD, 27, <i>Bryanston Square, W.</i>
606	1892. Mar.	FARRINGTON, William, <i>Town Hall, Hojland Nether, Yorkshire.</i>
738	1893. Jan.	FAWCETT, Edmund Alderston Sandford, ASSOC.M.INST.C.E., 13, <i>Victoria Street, S.W.</i>
103	1888. Oct.	FAWCETT, William Milner, M.A., F.R.I.B.A., 1, <i>Silver Street, Cambridge.</i>
607	1891. July.	†FELKIN, Howard Riley, 23, <i>Brackley Road, Chiswick.</i>
105	1888. Oct.	FIELD, Horace, 14, <i>Gray's Inn Square, W.C.</i>

Reg. No.	Date of Election.	MEMBERS.
127	1888. Oct.	FISHER, T. J., 50, <i>Thorne Road, South Lambeth, S.W.</i>
721	1892. Sept.	FLETCHER, Walter John, F.R.I.B.A., <i>Wimborne, Dorset.</i>
633	1891. Oct.	†‡FLOWER, Thomas James Moss, <i>Carlton Chambers, Baldwin Street, Bristol.</i>
124	1888. Oct.	FORDE, H. C., M.INST.C.E., 4, <i>Great Winchester Street, E.C.</i>
630	1891. May.	FOSBROKE, G. H., M.R.C.S., D.P.H., <i>County Medical Officer of Health, Rose Place, near Worcester.</i>
123	1888. Oct.	FOSTER, Reginald Le Neve, F.C.S., <i>North Road, Droylsdon, Manchester.</i>
713	1892. Nov.	FOWLER, Alfred Mountain, M.INST.C.E., 1, <i>St. Peter's Square, Manchester.</i>
130	1888. Oct.	FRANK, Philip, M.D., <i>Cannes, France.</i>
131	1888. Oct.	FRASER, James, M.INST.C.E., 100, <i>Castle Street, Inverness, N.B.</i>
122	1889. Jan.	FRASER, W. J., ASSOC.M.INST.C.E., 98, <i>Commercial Road, E.</i>
135	1888. Oct.	GALTON, Francis, F.R.S., 42, <i>Rutland Gate, S.W.</i>
471	1889. Mar.	GANGE, Frederick A., M.D., M.O.H., <i>Faversham, Kent.</i>
732	1892. Oct.	GAY, John, M.R.C.S., L.R.C.P., D.P.H., 119, <i>Upper Richmond Road, Putney, S.W.</i>
136	1888. Oct.	†GEEN, Harry, <i>Hillside, Okehampton, Devon.</i>
636	1891. July.	†‡GIBBS, Arthur Gordon, <i>Surveyor's Office, Midhurst.</i>
560	1889. Dec.	†GIBSON, William, <i>Bonhay Road, Exeter.</i>
411	1889. Jan.	†GILBY, Charles, <i>Bath.</i>
137	1888. Oct.	GILL, D., <i>Farleigh, Weston-super-Mare.</i>
650	1891. Nov.	GILLILAND, William John, <i>Architect, 74, Royal Avenue, Belfast.</i>
353	1888. Dec.	GLADSTONE, J. H., PH.D., F.R.S., 17, <i>Pembroke Square, W.</i>
676	1892. Jan.	GLAISTER, John, M.D., D.P.H., 101, <i>Great Russell Street, W.C.</i>
316	1888. Dec.	GLEN, A. W., 33, <i>Davis Street, Berkeley Square, W.</i>
573	1890. Mar.	GODFREY, Robt., ASSOC.M.INST.C.E., <i>Silverhow, King's Heath, Birmingham.</i>
613	1891. Jan.	GOING, Joseph A., M.R.C.S., B.A., M.O.H., <i>Fox Bay, West Falkland Islands, South America.</i>
318	1889. Nov.	GOODYEAR, Herbert, ASSOC.M.INST.C.E., <i>Colchester, Essex.</i>
513	1889. Apr.	GRANT, Ogilvie, M.B., C.M.E.DIN., M.O.H., <i>Queen Mary's House, Inverness, N.B.</i>
636	1892. Feb.	GRANTHAM, Richard Fuge, M.INST.C.E., <i>Northumberland Chambers, Northumberland Avenue, S.W.</i>
133	1888. Oct.	GRAY, Alexander, 25, <i>Greenhill Road, Hampstead, N.W.</i>

Reg. No.	Date of Election.	MEMBERS.
331	1890. Apr.	GREATOREX, Albert Daniel, <i>Local Board Offices, Public Hall, Sutton, Surrey.</i>
718	1892. July.	†GREEN, William Samuel, <i>Idridychay, Derby.</i>
703	1892. Apr.	GREGSON, John, ASSOC.M.INST.C.E., <i>Woodbine House, Padliham, Lancaster.</i>
419	1888. Oct.	GRELLIER, William, F.R.I.B.A., 6, <i>Queen Anne's Gate, S.W.</i>
333	1888. Oct.	GROVES, Joseph, B.A., M.D., F.G.S., <i>Carisbrooke, Isle of Wight.</i>
532	1890. Jan.	GRUGGEN, William, D.P.H., 11, <i>Montpelier Road, Ealing, W.</i>
77	1893. July.	†HADDOCK, Harry Frederick, 9, <i>Eland Road, Lavender Hill, S.W.</i>
63	1891. Mar.	HALL, Watkin, ASSOC.M.INST.C.E., <i>Local Board Offices, College Road, Gt. Crosby, Lancashire.</i>
612	1891. Jan.	HAMILTON, Walter M., M.D., D.P.H., 456, <i>Liverpool Road, Patricroft, Lancashire.</i>
67	1892. Mar.	HAMPTON, Willie Thomas, F.S.I., <i>Hotel Street, Coalville, Leicester.</i>
418	1888. Oct.	HANCOCK, Charles, M.A.OXON, 2, <i>The Cloisters, Temple, E.C., and Reform Club, S.W.</i>
610	1890. Dec.	HANSON, John, <i>Victoria Chemical Works, Wakefield.</i>
475	1889. Mar.	HARDING, J. R., M.INST.C.E., <i>Ashley Road, Epsom, Surrey.</i>
533	1889. Apr.	HARE, C. J., M.D., F.R.C.P., <i>Berkeley House, 15, Manchester Square, W.</i>
476	1889. Mar.	HARPER, William, M.INST.C.E., <i>Town Hall, and 197, Severn Road, Cardiff.</i>
579	1890. Apr.	HARRIS, Arthur Wellesley, M.R.C.S., L.S.A., D.P.H., M.O.H., <i>High Street, Southampton.</i>
431	1888. Oct.	HARRISSON, Thomas Harnett, ASSOC.M.INST.C.E., F.R.I.B.A., <i>Central Buildings, North John Street, Liverpool.</i>
717	1892. Nov.	HARRISON, William Joseph, ASSOC.M.INST.C.E., F.R.MET.SOC., 7, <i>Carteret Street, Westminster, S.W.</i>
327	1888. Dec.	HARROLD, Miss C., 10, <i>Church Road, Edgbaston, Birmingham.</i>
731	1893. Oct.	HARVEY, Thomas Fletcher, ASSOC.M.INST.C.E., <i>Engineer and Surveyor to the Merthyr Tydfil Local Board, Merthyr Tydfil, Glamorganshire.</i>
618	1891. Nov.	HASLAM, Dryland, Junr., F.S.I., <i>Friar Street Chambers, Reading.</i>
324	1888. Oct.	HASLAM, Lewis, <i>Ravenswood, near Bolton.</i>
626	1891. Apr.	HASLIP, George Ernest, M.D., M.R.C.S., L.R.C.P., D.P.H., 3, <i>Southampton Street, Strand, W.C.</i>
432	1888. Oct.	HAYWARD, C. F., F.S.A., F.R.I.B.A., 47, <i>Museum Street, Bloomsbury, W.C.</i>
333	1888. Oct.	HEAD, Henry, <i>Buckingham, Old Shoreham, Sussex.</i>
415	1889. Feb.	HEAD, Mrs. H., <i>Buckingham, Old Shoreham, Sussex.</i>

Reg. No.	Date of Election.	MEMBERS.
153	1888. Oct.	HELLYER, S. Stevens, 21, <i>Newcastle Street, Strand, W.C.</i>
300	1888. Dec.	HILL, Miss F. M. Davenport, 7, <i>Upper Wimpole Street, W.</i>
301	1888. Dec.	HILL, Miss R. Davenport, 7, <i>Upper Wimpole Street, W.</i>
121	1889. Jan.	HILL, Pearson, 6, <i>Pembroke Square, W.</i>
151	1888. Oct.	HILL, Samuel, A.B.L.D.A., 16, <i>Russell Square, W.C.</i>
152	1888. Oct.	HILL, William H., <i>Town Hall, Kensington, W.</i>
612	1891. Oct.	†HILLS, Harry James, 97, <i>Camden Street, Camden Town, N.W.</i>
672	1892. Feb.	HOBSON, John Morrison, M.D., D.P.H., <i>Croydon, S.W.</i>
157	1889. Mar.	HODGETTS, E. A. Brayley, 39, <i>Redcliffe Square, South Kensington, S.W., and Agence Dalziel, 50, Rue des Victoires, Paris.</i>
157	1888. Oct.	HODGSON, Shadworth H., 45, <i>Conduit Street, W.</i>
613	1891. July.	HODGSON, William James, ASSOC.M.INST.C.E., <i>High Park, Near Ryde, Isle of Wight.</i>
501	1890. Apr.	HOLBERTON, Henry Nelson, L.R.C.P., M.R.C.S., D.P.H., <i>East Moulsey, Surrey.</i>
158	1888. Oct.	HOLMES, Timothy, M.A., F.R.C.S., 18, <i>Great Cumberland Place, W.</i>
159	1888. Oct.	HOLT, H. P., ASSOC.M.INST.C.E., F.O.S., <i>The Cedars, Didsbury, Manchester.</i>
614	1891. Nov.	HOLROYDE, John, M.R.C.S., L.S.A., D.P.H., M.O.H., <i>Camden House, Chatham.</i>
474	1889. Mar.	HOOLEY, Cosmo C., ASSOC.M.INST.C.E., <i>The Union Offices, Barton-upon-Irwell, Manchester.</i>
553	1889. Nov.	HOOPER, Charles, M.R.C.S., M.O.H., <i>Aylesbury, Bucks.</i>
415	1889. Jan.	††HOUGHTON, John, <i>Poplar Road, King's Heath, near Birmingham.</i>
161	1888. Oct.	HOWARD, E., 84, <i>Upper Whitecross Street, E.C.</i>
503	1890. June.	†HOY, Peter, 7, <i>Park Place, Clarence Gate, N.W.</i>
163	1888. Oct.	†HUBBER, Frank, 85, <i>South Street, Exeter.</i>
615	1891. Oct.	†HUNT, John W., <i>Maindee, Newport, Monmouth.</i>
652	1892. Feb.	HUNTER, Alexander H., <i>Craiglands, West Kirby.</i>
701	1893. Feb.	HUNTER, John, 9, <i>Lincoln's Inn, W.C.</i>
301	1888. Dec.	INGLIS, Cornelius, M.D., 1, <i>Albert Mansions, Victoria Street, S.W.</i>
601	1891. Nov.	INGRAM, Matthew, <i>Hygia Works, and Durham Lodge, Old Trafford, Manchester.</i>
555	1890. May.	IVOR-MOORE, T., <i>Royal Engineer's Office, Antigua, West Indies.</i>
605	1890. Nov.	†JAMES, Arthur Charles, ASSOC.M.INST.C.E., <i>Local Surveyor's Office, 53, High Street, Grays, Essex.</i>
527	1889. May.	JAMES, Charles Alfred, L.R.C.P., M.R.C.S., D.P.H., 24, <i>Cazenove Road, Stamford Hill, N.</i>
674	1891. Nov.	JOHNSON, Samuel, M.D., C.M., M.O.H., <i>Stoke-on-Trent.</i>
702	1892. Apr.	JONES, Charles, M.INST.C.E., <i>Local Board, Ealing, W.</i>
611	1891. Oct.	†KAY, Walter Robert, <i>Mount Sion House, Bury.</i>

Reg. No.	Date of Election.	MEMBERS.
504	1889. Mar.	KEMPSTER, William Henry, M.D., M.O.H., <i>Oak House, Buttersca, S.W.</i>
504	1892. Apr.	KENDELL, Daniel Burton, M.B.CANTAB., <i>Thornhill House, Walton, Wakefield.</i>
160	1888. Oct.	KENNETT-BARRINGTON, Sir Vincent Hunter B., 65, <i>Albert Hall Mansions, Kensington Gore, W.</i>
673	1892. Jan.	KENWOOD, Henry R., M.B., L.R.C.P., D.P.H., F.C.S., 189, <i>Adelaide Road, Hampstead, N.W.</i>
722	1893. June.	KIDD, Thomas, ASSOC.M.INST.C.E., <i>City Engineer of Ripon, 8, Gladstone Terrace, Ripon, Yorkshire.</i>
707	1892. July.	†KILFORD, Henry James, <i>Borough Surveyor, Ilkeston, Derby.</i>
505	1889. Dec.	KIRBY, Oscar John, <i>Kelvin Grove, Staincliffe, Dewsbury.</i>
723	1893. Feb.	††KIRK, John Wright, <i>Town Hall, Caxton Street, Westminster, S.W.</i>
501	1889. Mar.	KIRWAN, SURG.-LT.-COL. A., D.P.H., F.R.C.S. EDIN., 10, <i>Wenlock Terrace, York.</i>
676	1889. Mar.	KYLE, Thomas W., M.D., D.P.H., M.O.H., <i>Measham, Atherstone.</i>
154	1888. Oct.	LACY, William George, 82, <i>East Hill, Wandsworth, S.W.</i>
710	1892. May.	LAFFAN, George Bastable, ASSOC.M.INST.C.E., <i>Local Board Offices, Queen's Road, Twickenham.</i>
551	1889. May.	LAING, R., M.R.C.S., L.R.C.P., F.R.MET.SOC., M.O.H., 29, <i>Waterloo Road, Blyth, Northumberland.</i>
724	1893. July.	LAKE, W. Wellington, M.R.C.S.(ENG.), D.P.H.(CAMB.), <i>Medical Officer of Health, Broad Street Common, near Guildford.</i>
725	1893. July.	†LAMBERT, Joshua, <i>Local Board Offices, Tottenham, N.</i>
303	1888. Dec.	LAVENDER, Charles Henry Nalder, 72, <i>St. Ermin's Mansions, Westminster, S.W.</i>
715	1892. Nov.	LAW, Herbert Henry, ASSOC.M.INST.C.E., 17, <i>Victoria Street, S.W.</i>
603	1892. Mar.	LAWFORD, George Maxwell, ASSOC.M.INST.C.E., M.SOC.E., 13, <i>Victoria Street, S.W.</i>
155	1888. Oct.	LAWRENCE, Edwin, 10, <i>Kensington Palace Gardens, W.</i>
723	1893. Jan.	LAW-GREEN, Charles, ASSOC.M.INST.C.E., <i>Surveyor, Swindon Highway Board, Swindon, Wilts, and Oundle, Northampton.</i>
157	1888. Oct.	LE GRAND, A., 125, <i>Bunhill Row, E.C.</i>
159	1888. Oct.	LEONARD, Hugh, 7, <i>Hanover Square, W.</i>
159	1888. Oct.	LE ROSSIGNOL, Francis, F.S.I., 1, <i>Gresham Buildings, Basinghall Street, E.C., (29, Penn Road Villas, Camden Road, N.).</i>
556	1889. June.	LETTIS, Thomas Hollins, 185, <i>Earls Court Road, South Kensington, S.W.</i>
712	1892. Oct.	LEWIS, Thomas Laurence, <i>Engineer and Surveyor, St. George, Gloucester.</i>

Reg. No.	Date of Election.	MEMBERS.
1 st	1888. Oct.	LINGARD, J. Edward, <i>Rodney Chambers, Derby.</i>
673	1892. Jan.	LITTLE, John Fletcher, M.B., M.R.C.P., M.O.H., 32, <i>Harley Street, Cavendish Square, W.</i>
764	1893. May.	LIVINGSTONE, George, ASSOC.M.INST.C.E., <i>Surveyor to the Vestry of St. George's, Hanover Square, 1, Piccadilly Road, London, S.W.</i>
767	1893. May.	†LLOYD, Christopher, 2, <i>St. Mark's Terrace, New Brompton, Kent.</i>
151	1888. Oct.	LLOYD, Robt. Samuel, 84 & 85, <i>Whitecross St., E.C.</i>
571	1890. Mar.	LOANE, Joseph, M.R.C.P.E., D.P.H., M.O.H., 98, <i>Tressillian Road, St. John's, S.E.</i>
507	1889. Apr.	LOCKWOOD, Phillip Causton, M.INST.C.E., 1, <i>Gloucester Place, Brighton, Sussex.</i>
700	1892. Apr.	LOWE, Louis J. McKenzie, M.INST.C.E., <i>Cassilla de Correo 665, Buenos Ayres, Argentine Republic, South America.</i>
423	1889. Jan.	LOWE, Mrs. Thomas, <i>Solihull, Birmingham.</i>
632	1891. June.	LYNDE, Frederick Charles, ASSOC.M.INST.C.E., 25, <i>Cross Street, Manchester, (9, Victoria Street, S.W.).</i>
153	1888. Oct.	LYON, Washington, 85, <i>Asylum Road, Peckham, S.E.</i>
100	1888. Oct.	‡MACKENZIE, F. Morell, M.R.C.S., L.S.A., 10, <i>Hans Place, S.W.</i>
616	1891. Nov.	MACKENZIE, William Leslie, M.A., M.B., C.M., D.P.H., COUNTY M.O.H., <i>Castle Douglas, N.B.</i>
101	1888. Oct.	MACKAY, John B., 2, <i>Bouverie Street, Fleet Street, E.C.</i>
414	1889. Mar.	MACNAMARA, Charles Edward, L.K.Q.C.P.I., D.P.H., 95, <i>Stephen's Green, Dublin.</i>
305	1888. Dec.	MCARTHUR, A., J.P., D.L., 79, <i>Holland Park, W.</i>
600	1890. Oct.	MCBEATH, William, M.A., M.D., D.P.H., 7, <i>Flora Place, Plymouth.</i>
124	1888. Oct.	MCINTOSH, James, <i>Dunecvan, Oatlands Park, Weybridge.</i>
312	1888. Oct.	MCKIE, Hugh Umsworth, M.INST.C.E., 11, <i>Victoria Street, Westminster, S.W.</i>
150	1888. Oct.	McMORRAN, Alexander, <i>Galloway House, Carlton Road, Putney, S.W.</i>
543	1890. Apr.	MCNEILL, Roger, M.D., D.P.H., J.P. <i>Argyllshire, County Medical and Sanitary Officer, Oban.</i>
103	1888. Oct.	†MAGUIRE, William Robert, F.R.MET.SOC., 10, <i>Dawson Street, Dublin, (Town Hill, Dalkey, Co. Dublin).</i>
124	1888. Oct.	MALBY, Frederic Thomas, ASSOC.M.INST.C.E., <i>Surveyor's Office, Guildford.</i>
672	1892. Jan.	MANLEY, Herbert, M.A., M.B., D.P.H., M.O.H., <i>West Bromwich.</i>
504	1890. July.	MARSDEN, James Aspinall, M.R.C.S., L.S.A., D.P.H., M.O.H., <i>Standish, Wigan, Lancashire.</i>
736	1892. Oct.	MARSDEN, Robert Sidney, M.B., D.S.C., F.R.S.E., M.O.H., 65, <i>Grange Mount, and Town Hall, Birkenhead.</i>

Reg. No.	Date of Election.	MEMBERS.
412	1888. Dec.	MARTINDALE, William, 10, <i>New Cavendish Street, W.</i>
153	1888. Oct.	MARTINEAU, E. H., F.R.I.B.A., 30, <i>Weymouth Street, Portland Place, W.</i>
770	1893. May.	MASON, Charles, ASSOC.M.INST.C.E., A.R.I.B.A., MEM. SOC.ENG., <i>Surveyor to the Vestry of St. Martin's-in-the-Fields, The Town Hall, Charing Cross, London, S.W.</i>
126	1888. Oct.	MASON, Hugh H., M.R.C.S., <i>Abbey Lodge, Barking.</i>
601	1892. Feb.	MASSIE, Frank, ASSOC.M.INST.C.E., F.S.I., F.R.MET.SOC., <i>Tetley House, Wakefield.</i>
702	1893. May.	MATHEWS, George Somers, ASSOC.M.INST.C.E., <i>Surveyor to the Local Board, Dorking, 35, High Street, Dorking, Surrey.</i>
127	1888. Oct.	MATHEWS, J. Douglass, F.R.I.B.A., F.S.I., 11, <i>Dowgate Hill, E.C.</i>
313	1888. Oct.	MELISSENO, G. C. A. Melisurgo, ASSOC.M.INST.C.E., <i>Palazzo Cocozzo, 76, Via Poerio, Naples.</i>
231	1888. Oct.	†METCALF, John W., ASSOC.M.INST.C.E., <i>Surveyor, Town Hall, Newmarket.</i>
234	1888. Oct.	MINEARD, George Edward, F.R.H.S., 70, <i>Philbeach Gardens, Earl's Court, S.W.</i>
714	1892. Oct.	†MITCHELL, Lewis, <i>Hurlford, Kilmarnock, N.B.</i>
603	1891. Dec.	MITCHELL, Robert, <i>Consulting Sanitary Engineer, Cape Town, South Africa.</i>
235	1888. Oct.	MOCATTA, F. D., 9, <i>Connaught Place, W.</i>
257	1888. Oct.	MONTAGU, Samuel, 12, <i>Kensington Palace Gardens, W.</i>
613	1891. Dec.	MORE, James, Jun., ASSOC.M.INST.C.E., F.R.MET.SOC., 49, <i>Orlando Road, Clapham, S.W.</i>
624	1891. May.	MORGAN, William Barlow, ASSOC. M. INST. C. E., <i>Surveyor, Weymouth.</i>
512	1889. July.	MORISON, John, M.D., D.P.H., <i>Victoria Street, St. Albans.</i>
613	1891. Oct.	†MORLEY, Edwin, <i>Town Hall, Walthamstow.</i>
254	1888. Oct.	†MORLEY, J. G., ASSOC.M.INST.C.E., <i>Town Hall, Stratford, E.</i>
611	1891. Jan.	MORRIS, Albert, M.R.C.S., L.R.C.P., <i>Post Office Buildings, Southend.</i>
710	1892. Nov.	‡MORRIS, Griffith John, <i>R.E. Establishment, Barbadoes.</i>
524	1889. May.	MORRIS, Pryce Jones Langford, M.R.C.S., L.R.C.P., M.O.H., <i>Halesworth, Suffolk.</i>
210	1888. Oct.	MOUAT, F. J., M.D., 12, <i>Durham Villas, Kensington, W.</i>
211	1888. Oct.	MOUAT, SURGEON-GENERAL J., C.B., F.R.C.S., 108, <i>Palace Gardens Terrace, W.</i>
213	1888. Oct.	MUMBY, B. H., M.D., D.P.H., M.R.C.S., M.O.H., <i>Town Hall, Portsmouth.</i>
512	1889. Apr.	MUNCE, James, ASSOC.M.INST.C.E., <i>Town Hall, Belfast.</i>

Reg. No.	Date of Election.	MEMBERS.
353	1889. Dec.	MUNDAY, MAJOR Henry, 23, <i>Oakley Square, N.W.</i>
213	1888. Oct.	NANSON, Tom, 9, <i>Park Crescent, Stockwell Park Road, S.W.</i>
352	1888. Nov.	NASH, BRIGADE-SURGEON William, M.D., 18, <i>Victoria Street, Westminster, S.W.</i>
529	1889. May.	NASMYTH, Thomas Goodall, M.D., D.S.C., M.O.H., <i>County Buildings, Cupar, Fife, N.B.</i>
216	1888. Oct.	NELSON, George H., <i>The Lawn, Warwick.</i>
733	1892. Oct.	†NEWMAN, Reginald William, ASSOC.M.INST.C.E., <i>3, Kempton Villas, Hampton, Middlesex.</i>
220	1888. Oct.	†NICHOLS, H. Bertram, ASSOC.M.INST.C.E., <i>Grosvenor Chambers, Corporation Street, Birmingham.</i>
219	1888. Oct.	NICOL, W. E., <i>Balloch, Aboyne, Aberdeen, N.B.</i>
629	1890. Dec.	NUNN, F. C., ASSOC.M.INST.C.E., <i>Eastnor, Sydenham Hill, S.E.</i>
737	1893. Jan.	O'NEILL, Henry, M.D., M.Ch., 6, <i>College Square E., Belfast.</i>
224	1888. Oct.	PAGE, Herbert Markant, M.D., D.P.H.CAMB., M.R.C.S., <i>16, Prospect Hill, Redditch.</i>
230	1888. Oct.	PAGLIARDINI, T., 21, <i>Alexander Street, Westbourne Park, W.</i>
531	1889. May.	PARKER, G. R., M.R.C.S., L.R.C.P., M.O.H., 31, <i>King Street, Lancaster.</i>
563	1889. Mar.	PARKER, John, ASSOC.M.INST.C.E., 42, <i>Dryden Street, Nottingham.</i>
574	1890. Mar.	†PARKER, John, ASSOC.M.INST.C.E., <i>City Engineer, Hereford.</i>
720	1892. July.	PARKER, John Edward, ASSOC.M.INST.C.E., <i>Surveyor and Sanitary Inspector, Lauchester, Durham.</i>
716	1892. July.	PARKIN, John Robert, ASSOC.M.INST.C.E., <i>Idridgchay, Derby.</i>
750	1893. July.	PARNACOTT, Alfred, F.S.I., 93, <i>York Road, Westminster Bridge Road, S.W.</i>
233	1888. Oct.	PARSONS, H. Franklin, M.D., <i>Local Government Board, Whitehall, S.W.</i>
431	1889. Mar.	PARTRIDGE, Thomas, M.R.C.P.I., M.R.C.S.E., L.S.A., M.O.H., <i>Stroud, Gloucester.</i>
722	1892. Sept.	PASTEUR, William, M.D., F.R.C.P., 4, <i>Chandos Street, Cavendish Square, W.</i>
530	1889. May.	PATTEN, Charles Arthur, L.R.C.P., M.O.H., <i>Ealing, W.</i>
234	1888. Oct.	PATTINSON, S., <i>Ruskington, Sleaford, Lincoln.</i>
333	1888. Dec.	PEAKE, Francis, <i>The Waldrons, Croydon, S.W.</i>
460	1888. Dec.	PEEL, Edmund, <i>Brynffys, Ruabon, North Wales.</i>
751	1893. July.	†PHELPS, William, 38, <i>Wingate Road, Hammersmith, W.</i>
236	1888. Oct.	†PHILLIPSON, Burton R., <i>Baygot Street, Dublin.</i>
660	1891. Nov.	PILLEY, John J., <i>Crescent Lodge, Cumberwell Grove, S.E.</i>
719	1892. Nov.	PLATT, Samuel Sydney, ASSOC.M.INST.C.E., <i>Borough Surveyor, Town Hall, Rochdale.</i>

Reg. No.	Date of Election.	MEMBERS.
731	1892. Dec.	‡POULSON, Frederick Thomas, <i>County Sanitary Inspector, 58, Wolverhampton Road, Stafford.</i>
237	1888. Oct.	POWELL, George Thompson, <i>Rotherwood, Sydenham Hill, S.E., (28 and 29, St. Swithin's Lane, E.C.).</i>
511	1888. Oct.	POWELL, J., 19, <i>Castle Street, Liverpool.</i>
62	1888. Dec.	PRIESTLEY, LADY Eliza, 17, <i>Hertford Street, Mayfair, W.</i>
513	1888. Oct.	PRITCHETT, G. E., F.S.A., F.R.I.B.A., <i>Oak Hall, Bishop's Stortford, (1, Hanway Place, Oxford Street, W.).</i>
533	1888. Oct.	PULLAR, Robert, J.P., F.R.S.E., <i>Tayside, Perth, N.B.</i>
210	1888. Oct.	PURNELL, W. J., <i>Vincent Row, Vincent Street, Westminster, S.W.</i>
211	1888. Oct.	PURNELL, E. W., <i>Vincent Row, Vincent Street, S.W.</i>
213	1888. Oct.	QUAIN, SIR R., BART., M.D., F.R.S., 67, <i>Harley Street, W.</i>
510	1889. Nov.	†RADCLIFFE, Joseph, F.R.MET.SOC., <i>The Waterworks, Todmorden.</i>
604	1890. Nov.	RADFORD, John Charles, ASSOC.M.INST.C.E., <i>Surveyor, 153, High Street, Putney, S.W.</i>
212	1888. Oct.	†RADFORD, W. H., ASSOC.M.INST.C.E., A.R.I.B.A., <i>Pelham Chambers, Angel Row, Nottingham.</i>
12	1889. Mar.	†RAILTON, James, <i>East Barnet Valley Local Board, Station Road, New Barnet.</i>
556	1890. Apr.	RAINIER, Charles Henry, 9, <i>Bath Place, Cheltenham.</i>
43	1889. Mar.	READ, Richard, ASSOC.M.INST.C.E., <i>City Surveyor, Gloucester.</i>
711	1892. Oct.	REDMAN, Robert Wilkins, <i>Borough Surveyor, Deal, Kent.</i>
333	1888. Nov.	REYNOLDS, Mrs. Russell, 38, <i>Grosvenor Street, W.</i>
574	1890. Mar.	RHODES, John William, 7, <i>Mitre Court Chambers, Temple, E.C.</i>
767	1892. Apr.	RICHARDSON, William, M.D., B.Sc.P.H., <i>Lunatic Asylum, Union Mills, Isle of Man.</i>
760	1893. Feb.	RICHMOND, John, <i>Architect, 7, Great College Street, Westminster, S.W.</i>
710	1892. Oct.	†RIDGWAY, Ernest Reginald, <i>Long Eaton, Derby.</i>
231	1888. Oct.	RIDINGS, H. Sadleir, M.A., M.INST.C.E., <i>Care of H. S. King & Co., 65, Cornhill, E.C.</i>
233	1888. Oct.	ROBERTS, Frederick F., M.D., 102, <i>Harley Street, W.</i>
571	1890. Jan.	ROBERTS, Richard Lawton, M.D., D.P.H.CAMB., M.R.C.S., L.S.A., <i>Ruabon, North Wales.</i>
403	1888. Dec.	ROBINS, Edward, 22, <i>Conduit Street, W.</i>
763	1892. Apr.	ROBINSON, James, ASSOC.M.INST.C.E., <i>County Surveyor, Winchester, Hants.</i>
401	1888. Dec.	ROE, SURGEON-MAJOR, E. A. H., 17, <i>Whitehall Place, S.W.</i>
513	1889. Apr.	ROGERS, George Arthur, M.R.C.S.E., L.S.A., M.O.H., <i>404, Commercial Road, E.</i>

Reg. No.	Date of Election.	
731	1892. Oct.	ROSS, Percival, ASSOC.M.INST.C.E., <i>Surveyor to North Bierley Local Board, Bradford.</i>
233	1888. Oct.	RUSSELL, HON. LADY Agatha, <i>Pembroke Lodge, Richmond Park, Surrey.</i>
619	1891. Nov.	†SAISE, Alfred John, <i>Stapleton, Bristol.</i>
441	1889. Mar.	SANDELL, Henry W. Adrian, M.R.C.S., M.O.H., <i>Leighton Buzzard.</i>
641	1892. Feb.	SANDERS, Henry Ingalton, <i>St. Regulus, Archers Road, Southampton.</i>
677	1891. Nov.	SCOTT, Conway, D.E., <i>Executive Sanitary Officer, Town Hall, Belfast.</i>
442	1889. Mar.	SCOTT, Hugh Hamilton, ASSOC.M.INST.C.E., <i>Town Hall, Hove, Brighton.</i>
233	1888. Oct.	SCOTT-MONCHIEFF, W. D., M.I.M.E., 86, <i>Newman Street, W.</i>
722	1892. Oct.	SCOTT, Robert Smith, ASSOC.M.INST.C.E., <i>Town Surveyor, Bishop Stortford.</i>
748	1893. Oct.	†SCOTT, Thomas Keat, <i>Town Surveyor, 3, Albion Terrace, Whithy, Yorkshire.</i>
251	1888. Oct.	SCHIVEN, J. Barclay, M.R.C.S., 95, <i>Oxford Gardens, North Kensington, W.</i>
411	1888. Dec.	SEARLES-WOOD, Herbert D., F.R.I.B.A., 157, <i>Wood Exchange, E.C.</i>
423	1889. Jan.	SELDY, Prideaux, <i>Koroit, North Park, Croydon, S.W.</i>
457	1889. Mar.	SELLERS, William, Junr., M.D., M.O.H., <i>Bank House, Radcliffe, Manchester.</i>
444	1889. Mar.	SHADWELL, St. Clair B., L.R.C.P., M.R.C.S., M.O.H., <i>Lynhurst, Walthamstow.</i>
443	1889. Mar.	SHAW, Charles Knox, L.R.C.P., M.R.C.S., 19, <i>Upper Wimpole Street, W.</i>
521	1889. Apr.	SHAW, Josephus, M.R.C.S., L.S.A., M.O.H., 151, <i>Lower Road, Rotherhithe, S.E.</i>
611	1891. Oct.	SHELBOURN, Michael, <i>Architect and Surveyor, Belvoir, Grantham.</i>
633	1891. Nov.	SHIMELD, James, L.R.C.P. and S.E., M.O.H., <i>Salisbury House, Ilford.</i>
430	1889. Jan.	SHONE, Isaac, ASSOC.M.INST.C.E., 47, <i>Victoria Street, Westminster, S.W.</i>
256	1888. Oct.	SHONKSMITH, John Henry, <i>Micklegate, York.</i>
257	1888. Oct.	SILLAR, W. C., <i>St. James' Lodge, Kidbrooke Park Road, Blackheath, S.E.</i>
411	1888. Dec.	SIMPSON, William John, M.D., D.P.H.CAMB., <i>Health Officer, Calcutta.</i>
263	1888. Oct.	SIORDET, James Lewis, M.B., F.R.C.P., <i>Villa Cabrolles, Mentone, Alpes-Maritimes, France.</i>
270	1888. Oct.	SKRINE, Henry Duncan, <i>Claverton Manor, Bath.</i>
532	1889. June.†	SMITH, Charles Chambers, <i>Surveyor's Office, Dalton-in-Furness.</i>
697	1892. Mar.	SMITH, John, ASSOC.M.INST.C.E., <i>County Surveyor's Office, Ballinasloe, Galway.</i>

Reg. No.	Date of Election.	
571	1888. Oct.	SMITH, Percival Gordon, F.R.I.B.A., <i>Highfield, Stonebridge Park, Willesden.</i>
572	1888. Oct.	SMITH, R. Wagstaff, <i>Mount Rundell, Harborne, Birmingham.</i>
573	1888. Oct.	SMITH, Thos. Fredk. II., F.R.C.S., L.S.A., <i>Farningham, Kent.</i>
419	1889. Feb.	SMITH, T. V., 111, <i>Grosvenor Road, S.W.</i>
727	1892. Sept.	SMITH, Urban A., ASSOC.M.INST.C.E., 2, <i>Victoria Mansions, Westminster, S.W.</i>
631	1889. Jan.	SNEEL, Alfred W., A.R.I.B.A., 1, <i>Park Road, Wimbledon, S.W.</i>
721	1893. Dec.	SOUTH, Andrew, <i>Surveyor, Carnbrae, Hamilton Road, Eding, W.</i>
512	1889. Apr.	SOUTHAM, Arthur, ASSOC.M.INST.C.E., 60, <i>Old Town, Clapham, S.W.</i>
727	1893. Oct.	†SPINK, Joseph, <i>Formby, Liverpool.</i>
723	1892. Sept.	†STANBURY, W. H., <i>Royal Engineer's Office, Gibraltar.</i>
523	1888. Oct.	STANSFIELD-BRUN, J., F.R.I.B.A., <i>Civil Engineer and Architect, Mumbles, Swansea.</i>
521	1889. Apr.	STEEL, William D., M.D., M.O.H., D.P.H., <i>Neville Street, Abergavenny.</i>
433	1889. Mar.	STEVES, George Walter, B.A., M.D., M.O.H., 53, <i>Parkfield Road, Liverpool.</i>
276	1888. Oct.	STEPHENSON, J. Gurdon L., ASSOC.M.INST.C.E., M.I.M.E., F.G.S., 6, <i>Drapers Gardens, E.C., (14, Maxilla Gardens, Notting Hill, W.).</i>
602	1890. Oct.	STEVENS, Joseph Wallace, <i>Belyh, Whitwell, near Chesterfield.</i>
277	1888. Oct.	STEVENSON, Thomas, M.D., 45, <i>Gresham Road, S.W.</i>
434	1889. Mar.	STEWART, Alan, <i>Maldon, Essex.</i>
433	1889. Jan.	STIFF, Ebenezer, <i>London Pottery, Lambeth, S.W.</i>
278	1888. Oct.	STREET, William C., A.R.I.B.A., ASSOC.INST.C.E., 7, <i>Victoria Street, Westminster, S.W.</i>
432	1889. Jan.	†SWAINSON, John Henry, M.S.A., ASSOC.M.INST.C.E., 3A, <i>High Street, Wrexham, N. Wales.</i>
433	1889. Jan.	†SWAN, Harold, 114, <i>Trinity Road, Upper Tooting.</i>
406	1888. Dec.	SWINBURNE, C. A., <i>Belgrave Mansions, Grosvenor Gardens, S.W.</i>
607	1891. Dec.	SWINNERTON, Robert Allen William, ASSOC.M.INST.C.E., M.I.M.E., <i>Bolarum, Dekkan, India.</i>
433	1889. Mar.	SYKES, Matthew Carrington, L.R.C.P., M.R.C.S., D.P.H., <i>Barnsley.</i>
241	1888. Oct.	†TATTERSALL, W., 90, <i>Arden Terrace, Accrington.</i>
257	1888. Oct.	TAYLOR, Charles, M.R.C.S., L.S.A., 3, <i>Lorraine Road, Holloway, N.</i>
733	1893. Oct.	TAYLOR, Michael Henry, L.R.C.P., L.R.C.S. EDIN., D.P.H.CAMB., 16, <i>Church Road, Richmond, Surrey.</i>
431	1889. Jan.	TAYLOR, Wm. Fredk., M.D., M.R.C.S., L.S.A., D.P.H., <i>Ontario, Edward Street, Brisbane, Queensland.</i>

Reg. No.	Date of Election.	MEMBERS.
755	1888. Oct.	TEALE, T. Fridgin, M.A., M.D., F.R.C.S., F.R.S., 38, <i>Cookridge Street, Leeds.</i>
753	1893. Dec.	TEW, James Scott, M.D., D.P.H., M.O.H., 22, <i>Burns Street, Nottingham.</i>
723	1892. Oct.	THOMAS, John, ASSOC.M.INST.C.E., <i>Engineer Swansea R.S.A., 14, Finsbury Terrace, Swansea.</i>
253	1888. Oct.	THOMAS, Walter, ASSOC.M.INST.C.E., <i>Castleknowie, and Town Hall, Dover.</i>
250	1888. Oct.	†THOMAS, W. E. C., ASSOC.M.INST.C.E., <i>Cringallt, Neath.</i>
451	1889. Feb.	THOMPSON, Thomas William, L.R.C.P., M.R.C.S., D.P.H., <i>Med. Inspector, Local Government Board, S.W.</i>
750	1893. Oct.	THOMPSON, John Henry, M.O.H., <i>Mytholmroyd, Yorkshire.</i>
552	1890. June.	†THOMPSON, Gilbert, 75, <i>Bath Street, Glasgow.</i>
319	1888. Oct.	THORNEYCROFT, Lieut.-Col., <i>Tettenhall Towers, Wolverhampton.</i>
370	1890. Jan.	THRESH, John Clough, M.B., B.S., D.Sc., F.I.C., F.C.S., M.O.H., <i>Chelmsford.</i>
453	1889. Jan.	THING, Right Hon. Lord, K.C.B., F.R.G.S., 5, <i>Queen's Gate Gardens, S.W.</i>
513	1889. July.	THURSFIELD, W. N., M.D., D.P.H., M.O.H., <i>Shrewsbury.</i>
753	1893. Nov.	†TIGHE, Michael J., 8, <i>Upper Sherrard Street, Dublin.</i>
407	1888. Dec.	TITMAS, William, 34, <i>Grafton Street, W.C.</i>
752	1893. Oct.	†TOWLSON, Samuel, <i>Surveyor to the Cheshunt Local Board, Cheshunt, Herts.</i>
653	1892. Feb.	‡TOWNSEND, John Walter, <i>Wendreda, Lancaster Road, Wimbledon, S.W.</i>
253	1888. Oct.	TRAVERS, William, M.D., F.R.C.S., 2, <i>Phillimore Gardens, W.</i>
404	1888. Dec.	TREW, J. Fletcher, 12, <i>Clarence Street, Gloucester, (22, Broad Street, Bristol).</i>
751	1893. Feb.	‡TROW, Samuel, <i>Engineer and Surveyor to the Otley Local Board, Otley, Yorkshire.</i>
753	1893. Feb.	TURNER, Rev. Samuel William, <i>Little Ellingham, Norfolk.</i>
313	1888. Oct.	TYNDALE, Walter Clifford, ASSOC.M.INST.C.E., <i>Horse Guards, Whitehall, S.W., (St. Stephen's Road, Ealing, W.).</i>
456	1889. Mar.	UNDERHILL, A. S., M.B., B.A., M.R.C.S., D.P.H., <i>Great Bridge, Tipton</i>
753	1893. June.	UNSWORTH, William, ASSOC.M.INST.C.E., <i>Assistant-Surveyor to the Toxteth Park Local Board, 16, Wendover Avenue, Aigburth Road, Liverpool.</i>
254	1888. Oct.	VALON, William A., ASSOC.M.INST.C.E., 140, <i>Temple Chambers, Temple Avenue, E.C.</i>
659	1892. Mar.	VERDON, H. Walter, M.D., F.R.C.S., M.O.H., 47, <i>Brixton Hill, S.W.</i>

Reg. No.	Date of Election.	MEMBERS.
313	1888. Oct.	WALLACE, William, 27A, <i>Old Bond Street, W.</i>
552	1890. Oct.	‡WALLIS, Arthur Gray, <i>Care of West of Scotland Sanitary Association, 75, St. George's Place, Glasgow.</i>
551	1888. Oct.	WALLIS, H. Sowerby, F.R.MET.SOC., 25, <i>Northwood Road, Highgate, N.</i>
551	1890. Apr.	WALLIS, Isabel White, 49, <i>Clifton Hill, St. John's Wood, N.W.</i>
755	1892. Apr.	WALTON, Rienzi G., M.INST.C.E., 2, <i>Leaham Gardens, Kensington, S.W.</i>
65	1891. Nov.	WARD, Arthur W., ASSOC.M.INST.C.E., <i>Lisburn, Merton Road, Southsea.</i>
65	1889. Jan.	WELCH, Henry, M.D., B.Sc., D.P.H.EDIN., <i>Sheffields, Hutton, Lancaster.</i>
551	1888. Nov.	WELLS, Sir T. Spencer, BART., M.D., F.R.C.S., 3, <i>Upper Grosvenor Street, W.</i>
751	1892. Nov.	WETWAN, William Albert, M.R.C.S., L.S.A., <i>Medical Officer of Health for Bridlington, 17, The Promenade, Bridlington Quay, Yorkshire (East Riding).</i>
653	1891. Nov.	WHITAKER, William, B.A., F.R.S., F.G.S., ASSOC.M.INST.C.E., 33, <i>East Park Terrace, Southampton, (28, Jermyn Street, S.W.).</i>
653	1888. Dec.	†WHITCOMBE, Arthur, 48 & 50, <i>Howland Street, Fitzroy Square, W.</i>
751	1893. May.	WHITE, John, ASSOC.M.INST.C.E., <i>Borough Surveyor, 29, Dover Road, Folkestone, Kent.</i>
553	1888. Oct.	WHITE, William, F.S.A., F.R.I.B.A., 30a, <i>Wimpole Street, W.</i>
553	1889. Apr.	WIGHTWICK, Fallon Percy, M.B., M.R.C.S., L.R.C.P., D.P.H., 5, <i>Curlew Street, Horsleydown, S.E.</i>
555	1888. Oct.	WILKINSON, W. B., <i>Northumberland Street, Newcastle-on-Tyne.</i>
557	1888. Oct.	‡WILKINSON, William, <i>Town Hall, Salford, (21, Park Place, Cross Lane, Salford).</i>
554	1888. Oct.	WILLIAMS, C. Theodore, M.A., M.D., F.R.C.P., F.R.MET.SOC., 2, <i>Upper Brook Street, W.</i>
755	1892. June.	WILLIAMS, Owen, <i>Surveyor, Aberdare, Glamorgan.</i>
650	1891. Dec.	WILLIAMS, Roscoe A., M.D., <i>State Board of Health, Olathe, Kansas, U.S.A.</i>
552	1889. Dec.	WILLIAMS, William, M.A., M.B., D.P.H.OXON, M.R.C.S., L.S.A., <i>Glamorgan County Office, Westgate Street, Cardiff.</i>
751	1892. Oct.	†WILLIAMS, William Ihtyd, 4, <i>Norton Road, West Brighton.</i>
553	1889. Apr.	WILLIS, George, L.F.P.S.G., M.O.H., <i>Clifton House, Baillieston, Glasgow.</i>
752	1892. June.	WILLIS, John, <i>Stansfield, Clewer, Windsor.</i>
554	1888. Oct.	†WILSON, J. B., <i>Court House, Cokermonth.</i>
757	1892. Oct.	†WILSON, John Allen, 18, <i>Rodney Terrace, Cheltenham.</i>

Reg. No.	Date of Election.	Name and Address.
210	1888. Oct.	WITHERS, J. B. Mitchell, F.R.I.B.A., 73, Surrey Street, Sheffield.
311	1888. Oct.	†‡WITTS, J. W., M.S.E., Borough Engineer's Office, Leeds.
312	1888. Oct.	WOOD, Jacob, 186, Highbury New Park, N.
313	1888. Nov.	WOOD, William, M.D., 99, Harley Street, W.
417	1889. Mar.	WOODMAN, John, M.D., F.R.C.S., M.O.H., Southernhay, Exeter.
313	1888. Oct.	WOODWARD, Edward Francis, 43, Southwell Street, Bristol.
710	1893. July.	†‡WORRALL, Ernest, 5, Beaconsfield Terrace, Seacombe, Liverpool.
111	1889. Jan.	†WORTH, John Edward, M.INST.C.E., F.R.MET.SOC., District Engineer, London County Council, Spring Gardens, S.W.
314	1888. Oct.	WYNDHAM, REV. FRANCIS M., M.A. OXON, St. Mary of the Angels, Westmoreland Road, Bayswater, W.
315	1888. Oct.	YULL, W., ASSOC.M.INST.C.E., 3, Fenchurch Avenue, E.C.

ASSOCIATES (ASSOC. SAN. INST.)

† Marked thus have passed the Examination of the Institute for Inspectors of Nuisances.

1	1888. Oct.	†ABRAMS, Henry, Sanitary Inspector, Bealey, Kent.
630	1892. Sept.	†ACKERNLEY, Joseph, Broughton Road, Skipton, York.
212	1889. Nov.	†ADAMS, Albert E., Local Board Offices, Town Hall, Wood Green, N.
2	1888. Oct.	†ADAMS, H. J., 13, Salcott Road, Wandsworth Common S.W.
31	1888. Oct.	ADAMS, Miss Rose (LADIES' SANITARY ASSOCIATION), 22, Berners Street, Oxford Street, W.
753	1893. June.	†ALLAN, George Awburn, Junr., 5, Clipstone Street, Great Portland Street, W.
635	1892. Nov.	†ALLEN, Thomas Holtan, Stumpshaw, Norfolk.
137	1889. Jan.	†ALLEN, William Henry, 8, St. John's Square, Cardiff.
337	1890. Nov.	†AMOR, Alfred, Octagon Chambers, Nelson Street, Bath.
4	1888. Oct.	†AMOR, Daniel C., Beaulieu, The Polygon, Southampton.
616	1892. Oct.	†ANDERSON, George Hart, 33, Borough Road West, Middlesborough.
524	1892. Feb.	†ANDREWS, Daniel James, Court House, Marylebone, W., (97, Hall Place, Paddington, W.).
311	1890. July.	ANNETT, William Fenn, 5, Church Street, Kensington, W.

Reg. No.	Date of Election.	Name and Address.
311	1892. Feb.	†ANTHONY, Frederick Joseph, 33, Yattun St., Bromley, E.
610	1892. Sept.	†ARMITAGE, Frederick Lincoln, 126, South Street, Huddersfield.
611	1892. Sept.	†ARMITAGE, T. Albert, South Parade, Huddersfield, Yorkshire.
610	1893. Dec.	†ARMSTRONG, Joseph, 3, Colvestone Crescent, Kingsland, N.E.
313	1891. Apr.	†ASHDOWN, Thomas, Vestry Hall, St. Olaves, Southwark, S.E.
712	1893. May.	†ASHFIELD, Ralph, 5, Lansdowne Street, Worcester.
611	1893. Feb.	†ASHLEY, Sydney, 14, Gower Street, Bedford Square, W.C.
711	1893. Apr.	†ASHURST, George Norman, 40, Allington Street, St. Michael's, Liverpool.
513	1892. Feb.	†ATHEY, Frederick, 47, Penge Road, South Norwood, S.E.
610	1892. June.	†ATKINS, Benjamin, 31, Russell Street, Leamington Spa.
567	1892. May.	†ATKINS, Robert William, 32, Holmwood Road, South Norwood, S.E.
511	1892. May.	ATKINSON, Thomas Appleton, Sanitary Inspector, Darlington.
617	1892. June.	ATRIDGE, Henry J., Sanitary Engineer, Firmont Road, Sea Point, Cape Town, South Africa.
610	1892. Feb.	†AYLIFFE, Charles William Loveless, 19, Brompton Road, S.W.
210	1889. July.	†BAILEY, William, 76, Wilmslow Road, Withington, Manchester.
111	1889. June.	†BAINTON, John, Sanitary Office, Scunthorpe, Doncaster.
151	1889. Apr.	BAKER, William, MEM.SOC.ARTS, 1, Chetwynd Road, Lawrence Road, Southsea.
613	1892. Sept.	†BALDWIN, Parkinson, 16, Montana Street, Higher Openshaw, Manchester.
211	1890. Feb.	†BALSTER, Herbert, Town Hall, Margate.
3	1888. Oct.	BAMLETT, Adam Carlisle, Thirsk, Yorkshire.
101	1889. Jan.	†BARFOOT, James, 100, Brook Street, Kennington Road, Lambeth, S.E.
717	1893. June.	†BARHALET, Thomas Chapman, Surveyor and Inspector, Godstone.
710	1893. July.	†BARRETT, Henry James, 20, Gowan Avenue, Fulham, S.W.
6	1888. Oct.	†BARRON, John, 33, Landor Road, Stockwell, S.W.
710	1893. Apr.	†BARTH, Frederick Alfred, St. Luke's Vestry Hall, City Road, E.C.
337	1891. Feb.	†BARTLETT, William John, 50, Cumming Street, E.C.
7	1888. Oct.	†BASCOMBE, H. C., Wallasey Local Board, Egremont, Cheshire.

Reg. No.	Date of Election.	Name and Address.
191	1889. June.	‡BASSETT, William Joshua, 16, Elizabeth Street, Eaton Square, S. W.
604	1892. June.	‡BATES, Matthew, Local Board Offices, Bromley, Kent.
251	1890. Apr.	‡BAXTER, Frank E., 374, Kennington Road, S. E.
9	1888. Oct.	‡BAXTER, John, 374, Kennington Road, S. E.
805	1893. Nov.	‡BEDFORD, Edward, Chapel Allerton, Leeds, Yorkshire.
172	1891. Dec.	‡BEECH, James, Ivy Cottage, Brownhills, Tunstall.
751	1893. July.	‡BENNETT, Edward, 43, Manor Park Road, Harlesden, N. W.
152	1889. June.	‡BIRCH, John Ernest William, 107, Cobden Road, South Norwood, S. E.
403	1892. Jan.	BIRD, Sidney James, H. M. Convict Prison, Portland, Dorset.
257	1890. May.	‡BIRD, William Frederick, The Island, Midsomer Norton.
313	1890. July.	‡BISHOP, William F., Margam Local Board, Tailbach, Port Talbot.
10	1888. Oct.	‡BLACK, Andrew E., 16, Bank Street, Inverness, N. B.
431	1891. May.	‡BLACKMAN, Henry, Catsfield, Battle.
60	1888. Dec.	BLAKE, E. T., M.D., 64, Seymour St., Hyde Park, W.
273	1891. Mar.	‡BLAKE, H. K., 1, Victoria Road, Stroud Green, N.
103	1889. June.	BLAND, William, 420, Liverpool Road, Patricroft.
753	1893. June.	‡BLAY, Ernest Berringer, 116, Matthias Road, Stoke Newington, N.
631	1892. Sept.	‡BOLTON, Joseph, 15, Cambridge Terrace, Otley, York.
777	1893. June.	‡BONE, William Homersham, 35, Mall Road, Hammersmith, W.
12	1888. Oct.	‡BOSTEL, G. Stanford, 18, Duke Street, Brighton.
322	1891. Apr.	‡BOURNE, Edward, 256, High Street, Cheltenham.
264	1889. July.	‡BOWYER, Harry David, Park Street, Slough.
13	1888. Oct.	‡BOYCE, W., 117, High Street, Poplar, E.
11	1888. Oct.	BOYD, Richard Wade, 105, New Bond Street, W.
352	1891. Mar.	‡BRALEY, Francis, 18, Woodbine Avenue, Leicester.
610	1892. June.	‡BRAMHAM, William, Fern Cottage, Market Street, Clay Cross.
15	1888. Oct.	BREZE, John, Poynton Lodge, Wellington, Salop.
767	1893. June.	‡BRIDEL, H. F., 3, Ballast Quay, East Greenwich, S. E.
769	1893. June.	‡BRIDGES, Oswald Arthur, Engineer and Surveyor's Office, Lymington, Hants.
605	1893. Nov.	‡BRIERLEY, Samuel, 26, Elford Grove, Roundhay Road, Leeds.
16	1888. Oct.	BROAD, Clement B., Stamford Brook Lodge, Ravenscourt Park, W.
334	1890. Nov.	‡BROOK, John, Albany Place, Stratford-on-Avon.
335	1890. Nov.	BROUGHTON, Thomas, 1, Granville Road, Garston, Liverpool.
391	1891. Apr.	‡BROWN, George William, SERG.-MAJ. R. E., 3, Marle Hill Villas, Cheltenham.
350	1891. Feb.	‡BROWN, John, 8, Paddock, Whitby.

Reg. No.	Date of Election.	Name and Address.
372	1892. May.	‡BROWS, Reginald, Local Board Office, Ealing, W.
321	1892. May.	‡BROWS, Robert, Jun., 44, St. Ann's Hill, Wandsworth, S. W.
17	1888. Oct.	‡BROWS, R. Railston, 1, Blenheim Terrace, Bridlington Quay, Yorkshire.
14	1888. Oct.	‡BROWS, W. E., 19, Havelock Road, Hastings.
225	1890. Jan.	‡BRYAN, George John, 4, South Norwood Hill, S. E.
402	1892. Jan.	‡BRYAN, Joseph James, 27, Oxford Street, Old Trafford, Manchester.
43	1891. June.	‡BUDD, John Thomas, 1, James's Parade, Bristol.
12	1888. Oct.	BUCHAN, W. Paton, Fairyknowe, Cambuslang, Lanarkshire, N. B.
20	1888. Oct.	BUCKERIDGE, Walter, Ivy Grange, Sidlesham, near Chichester.
62	1893. Jan.	‡BUCKTON, Walter, 27, Ladbrooke Square, W.
21	1888. Oct.	‡BUGLER, W. J., 6, Burstock Road, Putney, S. W.
104	1888. Dec.	BURN, Robert G. N., 24, Charing Cross, S. W.
22	1888. Oct.	BURROUGHS, S. M., Snow Hill Buildings, E. C.
321	1892. Feb.	‡BURSLAM, Randle, Congleton, Cheshire.
322	1892. May.	‡BUTCHER, Charles Ernest, 17, Circus Road, St. John's Wood, N. W.
174	1889. May.	‡BUTLAND, R. J., Town Hall, Lower Edmonton.
600	1893. Feb.	‡BUTLER, Charles E., Surveyor's Office, New Shoreham, Sussex.
120	1891. Mar.	‡BUTLER, Walter, Quay Street, Farcham, Hants.
257	1890. Apr.	‡BUTTERWORTH, Arthur, Board of Works, Mavey Road, Plumstead, S. E.
112	1889. Feb.	‡BUXTON, Anthony, Carishroke, Isle of Wight.
631	1892. Oct.	‡CANNELL, Charles Stephen, Thorpe St. Andrew, Norwich.
120	1891. June.	‡CARTER, Alfred, 60, Ashbrook Road, Upper Holloway, N.
423	1891. July.	‡CARY, Aquilla S., 1, Lily Villas, New Southgate.
303	1892. May.	‡CASS, Robert William, 27, Park Avenue, Church Lane, Pudsey.
23	1888. Oct.	‡CATTEN, Joseph H., 32, Exeter Street, Sloane Street, S. W.
500	1892. Feb.	‡CAVE, James, Town Hall, Kensington, W.
507	1893. Nov.	‡CAWSEY, Thomas, 12, Coedpenmaen Road, Pontypridd, Glamorganshire.
651	1892. Dec.	‡CHALK, Joseph, Waterworks Engineer's Office, Southampton.
434	1891. Nov.	CHALLONER, William, A. INST. E. E., Blackpool, Lancaster.
623	1892. Sept.	‡CHAMBERS, Frederick, Local Board Offices, Goole, Yorkshire.
533	1892. Mar.	‡CHAPPELL, William, 243, Elgin Avenue, Maida Vale, W.
710	1893. Feb.	‡CHESTERFIELD, William James, 27, Fernhurst Road, Fulham, S. W.

- | Reg. No. | Date of Election | Name and Address |
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| 523 | 1893. Nov. | ‡CHOULER, Ridgway Bentley, 1, Calthorpe Street, Gray's Inn Road, W.C. |
| 720 | 1893. Apr. | ‡CLARK, John Edwin, 31, Dalmore Road, West Dulwich, S.E. |
| 672 | 1893. Jan. | ‡CLARKE, Charles Henry, 2, Rutland Terrace, High Road, Leyton. |
| 400 | 1892. Jan. | ‡CLARKE, Robert Edwyn, 5, Gibson Square, Islington, N. |
| 21 | 1888. Oct. | ‡CLARKSON, Joseph, Churchfield Terrace, Batley, Yorks. |
| 110 | 1889. Jan. | ‡CLAYTON, Edward, Sanitary Inspector, Mansfield, Notts. |
| 221 | 1890. June. | ‡CLIFTON, Henry Chas., 50, Porchester Road, Bayswater, W. |
| 22 | 1888. Oct. | ‡COBHAM, C., The Shrubbery, Gravesend. |
| 27 | 1888. Oct. | ‡COBHAM, G. R., 3, Edwin Street, Gravesend. |
| 252 | 1890. Apr. | ‡COCKBURN, Henry Mace, Town Hall, Spa Road, S.E. |
| 722 | 1893. May. | ‡CODLING, Henry, West Boldon, Durham. |
| 316 | 1891. Jan. | ‡COLE, A. C., 21, West Street, Dorking. |
| 432 | 1891. July. | ‡COLLINS, Henry Beale, M.O.M., Glatton House, Kingston-on-Thames. |
| 452 | 1891. Dec. | ‡COLLYER, J., Uttoxeter, Stafford. |
| 717 | 1893. May. | ‡CONWAY, Isaac Henry Bugler, Lillington, Sherborne, Dorset. |
| 552 | 1892. Apr. | ‡COOK, Alfred, 35, White Lion St., Norton Folgate, E. |
| 464 | 1891. Nov. | ‡COOK, James, Warton, Curnforth. |
| 322 | 1890. Dec. | ‡COOK, William Gough, Eamore, The Grove, Clapham Road, S.W. |
| 144 | 1889. Feb. | ‡COOPER, William George, Sanitary Inspector, Bournemouth. |
| 222 | 1890. Jan. | ‡COPESTICK, George Christopher, 47, Bateman Street, Derby. |
| 220 | 1890. Jan. | ‡CORBETT, Richard Lawrence, Oakengates, Salop. |
| 132 | 1889. Jan. | ‡CORDON, Robert Curtis, Hillside Cottage, Duffield, Derby. |
| 411 | 1891. June. | ‡CORP, James, 72, St. George's Avenue, N. |
| 707 | 1893. Feb. | ‡CORRIGAN, Joseph, 24, Keble Street, Ince, Wigan, Lancashire. |
| 161 | 1889. Mar. | ‡COTTLE, Arthur Thomas, Selby Oak, Birmingham. |
| 722 | 1893. June. | ‡COTTRELL, John, Fallowfield, Manchester. |
| 412 | 1891. Oct. | ‡COWDEROY, John Tatem, Kidderminster, Worcester. |
| 610 | 1893. Nov. | ‡COWLING, John Coombe, Newton St. Cyres, Exeter. |
| 132 | 1889. Jan. | ‡COWPER, Joseph, 181, Brixton Road, S.W. |
| 315 | 1891. Jan. | ‡COXILL, George E., Vestry Hall, Cable Street, E. |
| 417 | 1891. June. | ‡CRANE, Joseph, 93, Trafalgar Road, Gorleston, Great Yarmouth. |
| 656 | 1892. Nov. | ‡CRANE, Stephen, 8, Dighton Road, Wandsworth, S.W. |
| 321 | 1891. Feb. | ‡CRANE, William Henry, 14, Colonial Street, Hull. |
| 23 | 1888. Oct. | ‡CROGHAN, Thomas Andrew, 37, Devonshire Gardens, Buxton. |

- | Reg. No. | Date of Election | Name and Address |
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| 322 | 1891. Mar. | ‡CROOK, Wm. Robert, Cranford House, Cranford, Hounslow. |
| 217 | 1890. Feb. | ‡CROSSE, Hammond William, 1, Deodor Road, Putney, S.W. |
| 214 | 1890. Feb. | ‡CROSSLEY, James, 1, Maurice Street, Bolton Road, Pendleton. |
| 216 | 1890. Jan. | ‡CROWTHER, William Christopher, 51, Hind Street, Stockton-on-Tees. |
| 522 | 1892. May. | ‡CRUDEN, John, Inspector of Nuisances, Berwick-upon-Tweed. |
| 221 | 1891. Feb. | ‡CULVER, Thomas Henry, 99, Cobden Road, South Norwood, S.E. |
| 62 | 1892. June. | ‡CURRIE, Thomas, Marshall Cottage, Hawkhill, Ayr. |
| 67 | 1891. Dec. | ‡DALTON, George, 3, Ferns Avenue, Carrington, Nottingham. |
| 144 | 1889. June. | ‡DALTRY, John, 12, King Street, Wellington, Salop. |
| 700 | 1893. June. | ‡DALRYMPLE, Alexander, 17, Wellington Street, Ayr, N.B. |
| 221 | 1893. May. | ‡DANCE, Edwin Hubert, Architect and Surveyor, 10, Quadrant Road, Thornton Heath, Surrey. |
| 612 | 1892. June. | ‡DANE, Samuel, Bird Nest Cottage, Primrose Lane, Glossop. |
| 20 | 1888. Oct. | ‡DARLEY, George, 49, St. Marks Street, Woodhouse, Leeds. |
| 501 | 1892. May. | ‡DAVID, Philip, 83, Elm Street, Cardiff. |
| 512 | 1892. Oct. | ‡DAVIES, Dan, Ferndale, Rhondda Valley, Glamorgan. |
| 677 | 1893. Jan. | ‡DAVIES, Edward Plummer, Ty Eos-y-Coed, Llanover, Abergavenny. |
| 211 | 1893. Nov. | ‡DAVIES, Miss Annie Mary, The Gymnasium, Waterloo, Liverpool. |
| 715 | 1893. Apr. | ‡DAVIES, Samuel, 6, Edith Road, Anfield, Liverpool. |
| 612 | 1893. Nov. | ‡DAVIES, Thomas, 79, Walthall Street, Crewe, Cheshire. |
| 222 | 1890. May. | ‡DAVIES, T. Lane, 1, Albert Square, E. |
| 770 | 1893. June. | ‡DAVIS, John Edward, 309, King's Road, Chelsea, S.W. |
| 670 | 1893. Jan. | ‡DAWES, Henry, 36, Paignton Road, Stamford Hill, South Tottenham. |
| 562 | 1892. May. | ‡DAWSON, Edward Howard, 41, Market Street, Lancaster. |
| 422 | 1891. June. | ‡DAWSON, John Marshall, 93, Malpas Road, Brockley. |
| 300 | 1890. June. | ‡DAWSON, William, 6, Brooklands Road, Birkenhead. |
| 221 | 1890. Mar. | ‡DEAN, Samuel Saunders, Hugglescote, Ashby-de-la-Zouch. |
| 312 | 1890. June. | ‡DEE, Thomas George, 17, Grosvenor Road, S.W. |
| 617 | 1892. Oct. | ‡DENHAM, Hodgson, Sanitary Inspector & Surveyor, Aberford, near Leeds. |
| 100 | 1888. Dec. | ‡DENSHAM, Charles A., 42, Wellington Road, St. John's Wood, N.W. |

Reg. No.	Date of Election.	Name and Address.
621	1892. July.	‡DEWHURST, James, <i>Woodbine Cottage, Merrow, Guildford, Surrey.</i>
722	1893. July.	‡DILKE, Francis Henry, 24, <i>City Road, Bristol.</i>
122	1891. Dec.	‡DOCKING, Frederick Reynolds, 56, <i>George Street, Croydon, S.W.</i>
653	1892. Oct.	‡DODGSON, William, <i>Cononley, York.</i>
271	1890. Jan.	‡DOVER, John Henry, 13, <i>King Street, Kensington Square, W.</i>
111	1891. Nov.	‡DOWSING, Alfred, 2, <i>Mawney's Villas, Romford.</i>
111	1889. Jan.	‡DRAKE, W. Medley, <i>Fisher Street, Spring Dale, Huddersfield.</i>
211	1890. Feb.	‡DUNBAR, David, 24, <i>George Square, Glasgow, N.B.</i>
512	1893. Nov.	‡DUNN, James Stephen, <i>The Poplar Board of Works, London, E.</i>
459	1891. Nov.	‡DUTHIE, Alexander, <i>Kirkcaldy District Committee, Markinch, Fife, N.B.</i>
113	1889. Feb.	‡DYER, Samuel, 3, <i>Wellington Road, Bridlington Quay.</i>
124	1891. June.	‡DYKE, Alfred William, <i>St. John's Wharf, Wandsworth Bridge, Fulham, S.W.</i>
112	1889. Jan.	‡DYSON, John Henry, <i>St. George's Terrace, Thornhill, near Dewsbury.</i>
112	1889. Jan.	‡EDMONDS, William H., <i>Vestry Hall, Hampstead, N.W.</i>
312	1890. Nov.	‡EDWARDS, John, 16, <i>Gladstone Street, St. George's Rd., S.E.</i>
526	1892. June.	‡ELLIS, Stanley, 28, <i>Chertsey Street, Guildford.</i>
722	1893. May.	‡ELMS, Thomas Hood, 43, <i>Mall Road, Hammersmith, W.</i>
31	1888. Oct.	‡EMPTAGE, Daniel, <i>Dane Hill Sanitary Works, Margate.</i>
32	1888. Oct.	‡EVANS, John Evan, 99, <i>Prince of Wales Road, N.W.</i>
522	1892. May.	‡EVANS, John Isaac, <i>Surveyor's Office, 2, Talbot Street, Aberavon, Port Talbot.</i>
771	1893. June.	‡EVANS, Percival Baker, 16, <i>Irene Road, Poole Park, Fulham, S.W.</i>
220	1890. May.	‡EVINGTON, Charles William, 12, <i>Bridlington Street, Hull.</i>
31	1888. Oct.	‡FAIRCHILD, Samuel C. G., 569, <i>Wandsworth Road, Clapham, S.W.</i>
353	1891. Feb.	‡FAIREY, Alfred Isaac, 5, <i>Turistock Street, Covent Garden, W.C.</i>
772	1893. June.	‡FEW, Herbert Arthur, 19, <i>Highbury Park, N.</i>
222	1890. Mar.	‡FINCH, William, 172, <i>Beverley Road, Hull.</i>
114	1889. Jan.	‡FINCHER, John Gazeley, 30, <i>Edward St., Aldershot.</i>
572	1892. May.	‡FISHER, Robert, 9, <i>King William Street, Greenwich, S.E.</i>
476	1891. Nov.	‡FOAD, Cephas, <i>Board of Works, 117, High Street, Poplar, E.</i>
227	1890. June.	‡FOLLAND, John Percy, 22, <i>Liverpool Street, King's Cross, N.W.</i>
32	1888. Oct.	‡FORDHAM, Wm. Francis, <i>Hampton House, High Road, Kilburn, N.W.</i>

Reg. No.	Date of Election.	Name and Address.
224	1890. May.	‡FORRESTER, William, <i>Staplehurst, Kent.</i>
32	1888. Oct.	‡FRANCE, T. W. Chapman, 36, <i>Bristol Road, Edgbaston.</i>
722	1893. Apr.	‡FRENCH, Harry Cramphorn, 13, <i>Lanhill Road, Puddington, W.</i>
61	1888. Oct.	‡GARDNER, PROF. W. T., M.D., LL.D., F.R.S., <i>The University, Glasgow.</i>
66	1888. Nov.	‡GARDNER, C. T., <i>Town Hall, Worthing.</i>
27	1888. Oct.	‡GARLAND, Wm., 12, <i>Higher Maudlin Street, Barnstaple.</i>
612	1892. June.	‡GARNHAM, Albert Edward, <i>Beulah Hill, Norwood, S.E.</i>
32	1888. Oct.	‡GASS, John Bradshaw, F.R.I.B.A., 19, <i>Silverwell Street, Bolton.</i>
126	1889. June.	‡GATHERCOLE, William Henry Joseph, <i>Sanitary Inspector, Guildhall, E.C.</i>
723	1893. Apr.	‡GEARY, Reginald, 4, <i>Hampstead Square, Hampstead, N.W.</i>
521	1893. June.	‡GENTRY, Herbert John, 63, <i>Loftus Road, Shepherd's Bush, W.</i>
727	1893. July.	‡GIBBARD, John Richard, 5, <i>Old Tiverton Road, Eक्टर.</i>
520	1890. Mar.	‡GIBSON, John, <i>Health Offices, North Church Street, Sheffield.</i>
126	1889. Mar.	‡GILBEART, John Joseph, 11 & 12, <i>Little Chester Street, Belgrave Square, W.</i>
614	1891. June.	‡GILLESPIE, REV. Charles George Knox, 2, <i>Darwin Terrace, Derby.</i>
224	1891. April.	‡GODSALL, Henry John, <i>Park Road, Sattley, Birmingham.</i>
601	1892. June.	‡GOLDER, Thomas Collings, 5, <i>Connaught Road, Folkestone.</i>
727	1893. Oct.	‡GOLDS, Thomas William, 13, <i>Crompton Street, Puddington, W.</i>
723	1893. May.	‡GOODALL, Norman, <i>Russell Street, Batley, Yorkshire.</i>
523	1892. Feb.	‡GOODMAN, Herbert, 4, <i>Clapton Common, N.E.</i>
31	1888. Oct.	‡GOODWYN, Arthur Ayde, 34, <i>Church Road, Richmond, Surrey.</i>
512	1892. Feb.	‡GORNROT, Thomas Arthur, 59, <i>Great James Street, Lisson Grove, N.W.</i>
320	1891. Feb.	‡GOUGH, Joseph, 7, <i>Malvern Terrace, St. Paul's Road, Tottenham.</i>
471	1891. Nov.	‡GRANT, Alexander, <i>Town Hall, Chelsea, S.W.</i>
511	1893. Nov.	‡GRANT, Ernest Henry, <i>Town Hall, Worthing, Sussex.</i>
113	1889. Jan.	‡GRANT, Walter, 18, <i>Gildredye Road, Eastbourne.</i>
125	1891. July.	‡GREEN, Edward Albert, 16, <i>Rock Street, Bridge-houses, Sheffield.</i>
321	1891. Feb.	‡GREEN, William, 6, <i>Meredith St., Clerkenwell, E.C.</i>
127	1889. June.	‡GREENWELL, Allan, <i>Surveyor's Office, Frome.</i>
40	1888. Oct.	‡GRIBBLE, Miss Sarah C.

Reg. No.	Date of Election.	
733	1893. May.	‡GRIFFIN, Thomas Gulliver, <i>Laurel Cottage, Thanel Street, Clay Cross, Derby.</i>
322	1891. Feb.	‡GRIFFIN, William Henry, 2, <i>Acford Road, South Fulham, S.W.</i>
322	1890. June.	GRINHAM, Philip Boys, <i>Tichborne Down, Alresford.</i>
419	1891. June.	‡GRIVELL, Elias James, <i>Storrington, Sussex.</i>
41	1888. Oct.	‡GUNN, Alexander, 118, <i>King Street, Aberdeen.</i>
700	1893. Oct.	HALE, Alexander, <i>Chief Sanitary Inspector of the Municipality of Simla, in the Punjab Province of British India, Myrtle Villa, Simla, Punjab, British India.</i>
230	1890. Jan.	‡HALL, George Berringer, r.g.s., 10, <i>Waldemar Avenue, Fulham Road, S.W.</i>
633	1892. Oct.	‡HALL, John, <i>Poundfield, Stonehouse, Gloucester.</i>
623	1892. Sept.	‡HALL, Thomas John, 17, <i>Regent Street, Barnsley, Yorkshire.</i>
710	1893. May.	HALLIGAN, William, <i>Sanitary Engineer, Trevellian Street, Elsternwick, near Melbourne, Victoria, Australia.</i>
624	1892. Sept.	‡HAMMOND, William Henry, <i>South Parade, Horbury, Wakefield, Yorkshire.</i>
741	1893. July.	‡HANNANT, William B., 34, <i>Blenheim Terrace, St. John's Wood, N.W.</i>
720	1893. Apr.	‡HANSON, J. H., 6, <i>Trinity Terrace, Camp Hill, Birmingham.</i>
704	1893. Feb.	‡HARGREAVES, James Wm., 296, <i>New Church Road, Stacksteads, Lancashire.</i>
613	1893. Nov.	‡HARRISON, Edward Stanhope, <i>The Guildhall, Swansea, Glamorganshire.</i>
107	1889. June.	‡HARRISON, George, <i>Thurnby, Leicester.</i>
370	1891. Mar.	‡HARRISON, William Henry, <i>Health Offices, 6, North Church Street, Sheffield.</i>
42	1888. Oct.	‡HARRISON, Wm. L., 7, <i>Dock Street, Hull.</i>
600	1893. Feb.	‡HART, John William, 12, <i>Andalus Road, Stockwell, S.W.</i>
43	1888. Oct.	‡HART, W. S., 29, <i>Coley Hill, Reading.</i>
377	1891. Mar.	‡HARTNOLL, Francis, 49, <i>St. Paul's Road, Burdett Road, E.</i>
600	1893. Oct.	‡HARVEY, William, 117, <i>Dunlace Rd., Lower Clapton, N.E.</i>
414	1891. Oct.	‡HATTON, Charles, <i>Claremont, Mexfield Road, Putney, S.W.</i>
212	1890. Jan.	‡HAY, Alexander, 56, <i>George Square, Glasgow.</i>
773	1893. June	‡HEAD, Arthur Parr, 39, <i>Barnsdale Road, Paddington, W.</i>
44	1888. Oct.	‡HEAD, Robert H., 7, <i>Upper Baker Street, N.W.</i>
403	1891. Nov.	‡HEAPS, William, Junr., 28, <i>Parker Street, Chorley, Lancashire.</i>
45	1888. Oct.	HEARN, Walter, 62, <i>Grove Park Terrace, Grove Park, Chiswick, W., (27, Mecklenburgh Sq., W.C.).</i>

Reg. No.	Date of Election.	
49	1888. Oct.	‡HEARNE, William, <i>Buenos Ayres.</i>
511	1892. Mar.	‡HERDEN, Joseph Henry, 6, <i>Marlborough Terrace, South Boulevard, Hull.</i>
122	1889. June.	‡HELDON, Horace, 14, <i>St. Edmunds Terrace, Primrose Hill, N.W.</i>
577	1892. May.	‡HENLEY, Amos S., 57, <i>Lessada Street, Roman Road, Victoria Park, E.</i>
607	1891. Nov.	‡HERBERT, Harry, 39, <i>Westbourne Road, Sunderland.</i>
727	1893. Apr.	‡HILL, Samuel Gostage, 14, <i>Aigburth Road, Grassendale, Liverpool.</i>
233	1890. Mar.	‡HILLS, Arthur Reginald, 24, <i>Harley Street, Bow, E.</i>
606	1893. Jan.	‡HILLYARD, Henry, 74, <i>Duncombe Road, Hornsey Rise, N.</i>
104	1888. Dec.	‡HOBBS, W. F., 36, <i>Melbourne Street, Stalybridge.</i>
233	1890. Mar.	‡HODGES, Albert, 57, <i>Hall Street, Blakenhall, Wolverhampton.</i>
710	1893. May.	‡HOLDEN, Timothy, 272, <i>City Road, Manchester.</i>
202	1890. May.	‡HOLLAND, Percy, <i>Fairstead Cottage, Newmarket.</i>
608	1892. Sept.	‡HOLMES, John Edward, <i>North Collingham, Newark.</i>
700	1893. July.	‡HOOPER, Thomas Henry, 84, <i>Bond Street, Vauxhall, S.W.</i>
121	1889. June.	‡HOOPER, Thomas Rowland, <i>Redhill, Surrey.</i>
222	1890. Jan.	‡HOOPER, William, 8, <i>Lucas Road, Penze, S.E.</i>
510	1892. Feb.	‡HORLOCK, Charles William, <i>Little Horsted, Uckfield.</i>
47	1888. Oct.	HORNCASTLE, Henry, <i>Lindisaye, Palmerston Road, Woking.</i>
452	1891. Nov.	‡HORNER, Benjamin Roper, <i>Sanitary Inspector, Town Hall, West Bromwich.</i>
49	1888. Oct.	‡HORROCKS, Joseph, 10, <i>Union Street, Southport.</i>
474	1892. Feb.	‡HORTON, Richard, 8, <i>Orford Street, Chelsea, S.W.</i>
553	1892. May.	‡HORTON, William, 22, <i>Halsey Street, Chelsea, S.W.</i>
602	1893. Feb.	‡HOSKINS, Nandy William, 7, <i>Boundary Road, Chatham.</i>
110	1889. Jan.	‡HOUGHTON, Robert Alfred, 5, <i>Merton Hall Road, Wimbledon, S.W.</i>
331	1890. Nov.	‡HUGHES, Edward J., 102, <i>Camden Street, Birkenhead.</i>
473	1891. Nov.	‡HUGHES, Walter, <i>Thompson Street, Bilston.</i>
603	1892. Nov.	‡HUNT, William Edward, 1, <i>Ashmead Road, St. John's, S.E.</i>
673	1893. Jan.	‡HUNTER, John, <i>New Windsor.</i>
212	1890. Feb.	‡INGRAM, William Jones, <i>Goldsworth Road, Woking.</i>
454	1891. Dec.	‡INSKIP, Frederick Thomas, <i>Dilthorne, Stoke-on-Trent.</i>
510	1892. Mar.	‡IRVING, William, <i>Town Hall, Shrewsbury.</i>
611	1892. June.	‡JACKLING, William, <i>Inspector's Office, Fair Meadow, Maidstone.</i>
317	1891. Feb.	‡JACKSON, Henry James, <i>Rye Road, Hoddesdon, Herts.</i>
712	1893. May.	‡JACKSON, Thomas, 288, <i>New Hall Lane, Preston, Lancashire.</i>
415	1891. Oct.	‡JACKSON, William, <i>Health Office, North Church St., Sheffield, (181, Clough Road, Sheffield.)</i>

Reg. No.	Date of Election.	Name and Address.
211	1890. Feb.	JACOB, Oswald, <i>Sanitary Inspector, Feltham, Middlesex.</i>
723	1893. Apr.	‡JARRATT, Edward John, <i>Morden Lodge, Albion Hill, Lewisham Road, S.E.</i>
444	1891. Oct.	‡JARVEY, George, <i>Town Hall, Salford.</i>
235	1890. Jan.	‡JELLIS, John, 11, <i>Ardene Road, Brixton, S.W.</i>
816	1893. Nov.	‡JENKINS, David, <i>Port Sanitary Offices, Docks, Cardiff, Glamorganshire.</i>
207	1889. July.	‡JENNER, Richard Messenger, <i>Parade Road, Sandgate.</i>
671	1893. Jan.	‡JEVONS, John H., <i>Braintree, Essex.</i>
771	1893. June.	‡JOHNS, David James, 28, <i>Gelli Road, Ton Pentre, Rhondda Valley, Glamorganshire.</i>
374	1891. Feb.	‡JOHNSON, H. Watts, <i>Manor House, Little Berkhamstead, Herts.</i>
243	1890. May.	‡JOHNSON, John William, 43, <i>Bromley Street, Commercial Road, E.</i>
310	1890. Nov.	‡JOHNSON, Joseph Edward, <i>Medical Officer of Health's Department, Town Hall, Hull.</i>
453	1891. Nov.	‡JOHNSON, Matthew, 31, <i>Palmer Street, Jarrow.</i>
273	1890. June.	JONES, John, 40, <i>Sydney Street, Chelsea, S.W.</i>
323	1890. Nov.	‡JONES, Julius Morris Wilson, 24, <i>St. Agnes Place, Kennington Park, S.E.</i>
142	1889. June.	‡JONES, William, <i>Cemlyn, Dolgelly, Merioneth.</i>
234	1890. Mar.	‡JOURS, William, <i>Town Hall, Gateshead-on-Tyne.</i>
312	1890. Dec.	‡JURY, H. A., <i>North-East Lodge, Chelsea Bridge, Grosvenor Road, Pimlico, S.W.</i>
50	1888. Oct.	‡KEAL, J., <i>Southview Hill Road, Sutton, Surrey.</i>
551	1892. May.	‡KELF, Charles Harvey, 13, <i>Victoria Avenue, Upton Park, Essex.</i>
51	1888. Oct.	‡KEMSLEY, Jesse, 76, <i>Queen's Road, Bayswater, W.</i>
529	1892. Mar.	‡KENNEDY, Daniel, 19, <i>Tremlett Grove, Junction Road, N.</i>
467	1891. June.	‡KERSHAW, Edward Baxter, <i>Hinton, 64, Theale Road, Streatham, S.W.</i>
52	1888. Oct.	‡KIELL, John, 103, <i>High Street, Barnstaple.</i>
552	1892. May.	‡KILGALLIN, Charles J., 55, <i>Marylebone Road, W.</i>
439	1891. July.	‡KING, Albert S. W., 31, <i>Mervan Road, Brixton, S.W.</i>
762	1893. June.	‡KING, Claude, 24, <i>Prince of Wales Road, Norwich, Norfolk.</i>
149	1889. Feb.	‡KING, Frederick William, <i>Heybridge, Maldon, Essex.</i>
570	1892. May.	‡KIRK, William Hugh, <i>Town Hall, Newcastle-upon-Tyne.</i>
817	1893. Nov.	‡KIRK, William Willey, 17, <i>Waterway Street West, Nottingham.</i>
53	1888. Oct.	KITE, Charles, 31, <i>Barronsmere Road, East Finchley.</i>
274	1890. May.	‡KNIGHT, Robert, Junr., <i>Abbot House, Dunfermline, Fife.</i>
150	1889. Feb.	‡KNIGHT, William Henry, <i>Dulce Domun, Gishburn Road, Hornsey, N.</i>
663	1892. May.	KNOWLES, James Edward, 9, <i>System Street, Cardiff.</i>

Reg. No.	Date of Election.	Name and Address.
773	1893. June.	‡LADD, H. F. B., 5, <i>Crompton Terrace, Walmer, Kent.</i>
703	1893. June.	‡LAMBLE, Phillip T., 14, <i>Chichester Street, W.</i>
604	1892. June.	‡LAMPFORT, Miss Ethel Frances, 55, <i>Burton Crescent, W.C.</i>
183	1889. June.	‡LANDER, James, 19, <i>Millbank Street, Westminster.</i>
53	1888. Oct.	‡LAPWORTH, J., <i>Vestry Hall, Bethnal Green, E.</i>
214	1889. Nov.	‡LAURIE, John, <i>The Lawn, Iffley, Oxon.</i>
77	1893. Apr.	‡LAWRENCE, James, 12, <i>Bridge Road West, Old Battersea, S.W.</i>
711	1893. May.	‡LAWSON, Archibald, 103, <i>Leinster Road, Rathmines, Dublin.</i>
377	1893. Apr.	‡LEACH, Robert, 6, <i>Barton Street, Westminster, S.W.</i>
63	1891. Nov.	‡LEAR, Charles F. E., <i>Alverstoke, Hampshire.</i>
131	1889. Jan.	‡LEAR, James Walter, 122, <i>Southgate Road, N.</i>
133	1889. Mar.	‡LEE, James, 28, <i>Franchise Street, Rochdale.</i>
56	1888. Oct.	‡LEGG, S. C., 117, <i>Powerscroft Road, Lower Clapton, N.E.</i>
516	1892. Feb.	‡LEIGH, Frederick George, <i>Cottage Hospital, Dover, Kent.</i>
162	1888. Dec.	‡LENNOX-CLARKE, A.
603	1893. Feb.	‡LEVERTON, John Henry, <i>Sanitary Inspector, St. John's, Hampstead, Vestry Hall, Haverstock Hill, and 45, Lisburne Road, Hampstead, N.W.</i>
117	1889. Jan.	‡LEWIS, Arthur, <i>Isham, Wellingborough.</i>
374	1891. Feb.	‡LEWIS, Charles, <i>Newland Street, Witham, Essex.</i>
703	1893. July.	‡LEWIS, James, 17, <i>Heyford Avenue, South Lambeth Road, S.W.</i>
57	1888. Oct.	‡LIGHTFOOT, Thos., 1, <i>Langsyne Villas, Forest Road, Ken.</i>
201	1890. May.	‡LIGHTFOOT, William Charles, 37, <i>Fernshaw Road, King's Road, Chelsea, S.W.</i>
233	1890. Jan.	‡LILLY, William Gent, 5, <i>Whitcomb Street, W.C.</i>
519	1892. Mar.	‡LINDLEY, Joseph, <i>Cliffe Villa, Stancliffe, Dewsbury.</i>
714	1893. May.	‡LINTOTT, John, 80, <i>London Road, Brighton, Sussex.</i>
324	1890. Nov.	‡LITTLE, William, <i>Health Office, North Church Street, Sheffield.</i>
437	1891. July.	‡LOCKE, Walter Richard, <i>Bedford House, Aylesbury.</i>
764	1893. June.	‡LOCKWOOD, Arthur Charles, 49, <i>Queen's Road, Crown Hill, Norwood, S.E.</i>
311	1891. Jan.	LONGSDON, Ernest M., <i>Surveyor, Town Hall, Baccwell.</i>
514	1893. Nov.	LOUDON, John Baird, <i>Rosshyn Villa, Warwick Road, Coventry.</i>
464	1891. Nov.	‡LOWRY, John, <i>Grave Villa, Bradmore, Wolverhampton.</i>
114	1889. Jan.	‡LUKES, Arthur Henry, <i>Town Hall, Gravesend.</i>
327	1890. Nov.	‡LUND, Clifton, 9, <i>Bridge Street, Southport.</i>
54	1888. Oct.	‡LUND, Jeremiah, <i>St. James's Vestry, Piccadilly, W.</i>
623	1892. July.	‡LYON, James Joseph, 6, <i>Rice Lane, Walton-on-the-Hill, Liverpool.</i>
61	1888. Oct.	MACINTOSH, James, 38, <i>Langham Street, W.</i>

Reg. No.	Date of Election.	Name and Address.
171	1889. Apr.	MACKAY, James John, 186, Kensal Road, W.
237	1890. Feb.	†MACLENNAN, John, Carnock House, Carnock, Dunfermline.
650	1893. Jan.	†MADGE, Frank William, 46, London Road, Forest Hill, S.E.
471	1891. Nov.	†MADIN, William B., Town Hall, Leek.
441	1891. June.	†MAGER, Frederick Walter, Rural Sanitary Authority, Durngate Street, Dorchester.
272	1890. May.	†MALCOLM, Alfred, Clayton, Manchester.
493	1892. Feb.	†MALVERN, Thomas, Winchcombe Street, Cheltenham.
622	1893. Feb.	†MARRABLE, Horace, 130, Latchmere Road, Clapham Junction, S.W.
514	1892. Feb.	†MARTIN, Robert, 17, Wawne Street, Spring Bank, Hull.
412	1891. Oct.	†MARTIN, William, Junr., Glenburn, Carlisle, N.B.
324	1891. Apr.	†MASON, Frederick William, 22, Main Avenue, Bush Hill Park, Enfield.
234	1890. Apr.	MASON, Jonathan, 1, Grove Terrace, Grove Road, Leytonstone.
53	1888. Oct.	†MATTHIAS, H. D., 140, Smithdown Road, Liverpool.
303	1892. Feb.	†MATTHEWS, Frederick, Kedleston, Derby.
713	1893. May.	†MATTHEWS, Henry, Grimley, Worcester.
373	1891. Feb.	†MATTHEWS, William, Kedleston, Derby.
321	1892. Feb.	†MAXWELL, William Henry, Local Board, Town Hall, Leyton, E.
343	1891. Mar.	†MAYNE John William, Sanitary Inspector, Wimbledon, S.W.
131	1889. Feb.	†MAY, William H., Inspector's Office, Guildhall, E.C.
60	1888. Oct.	†MCDONALD, A. L., 37, George Street, Gipsy Hill, S.E.
625	1892. Sept.	†MEADOWS, John W., 52, Camden Street, North Shields, Northumberland.
614	1892. Oct.	†MEAZEY, Thomas, 1, Stanwell Road, Penarth.
103	1888. Dec.	MERRILL, John, Albany Road, Sheffield.
134	1889. Jan.	†MILLARD, William David, Roslin, Ellington Road, Ramsgate.
324	1892. June.	†MILLER, Frederick William, 137, Sulcott Road, Clapham Common, S.W.
493	1892. Feb.	†MILLS, Joshua George, North Road, West Kirby, Cheshire.
432	1891. July.	†MILNER, Walter, 40, Sackville Street, W.
315	1890. Oct.	†MILNER, William, 116, Park Road, Chorley.
62	1888. Oct.	†MINTY, Samuel, The Triangle, Bournemouth.
321	1891. Mar.	†MISSELBROOK, G. T., 2, Percy Road, Fawcett Road, Southsea.
610	1892. Sept.	MITCHELL, Charles Frederick, 55, Queen's Crescent, Haverstock Hill, N.W., and The Polytechnic, Regent's Street, W.
219	1890. Feb.	MITCHELL, Edward, 25, St. Saviour's Road, Croydon, S.W.

Reg. No.	Date of Election.	Name and Address.
304	1890. June.	†MOODY, Henry Fred, 37, Hare Street, Great Grimsby.
703	1893. Feb.	†MOONEY, Patrick, 353, Chester Road, Manchester.
504	1893. Oct.	†MORGAN, William, 11, Bute Crescent, Pontyclun, Glamorganshire.
612	1892. July.	†MORRISON, John William, Town Hall, Salford, Lancaster.
402	1891. Apr.	†MOSLEY, Abraham, Goodyear Chambers, Abingdon Square, Northampton.
102	1891. Dec.	†MOSS, Samuel, Williamson Street, Tunstall.
403	1892. Feb.	†MUNRO, Andrew John, Fairlight, Birkbeck Road, Enfield.
302	1892. May.	NAYLER, Edward, 140, Lake Road, Landport, Portsmouth.
201	1889. July.	†NETTLETON, Charles William, 16, Winchester Terrace, Westminster, S.W.
303	1892. May.	†NEWMHAM, Frank George, 14, South Norwood Hill, S.E.
573	1892. May.	NEWSOM, George John, 25, Gertrude Street, West Brompton, S.W.
304	1891. Mar.	†NICHOLAS, David, 256, Essex Road, Canonbury, N.
402	1892. Feb.	†NORMAN, Ernest William, 4, Dawes Road, Forest Gate, E.
103	1888. Dec.	NORRIS, Joseph, Sunningdale, Ascot, Surrey.
207	1890. Mar.	†NORRISH, John Thomas, 9, Cuthbert Road, Brighton.
713	1893. Feb.	†NORTON, Elizabeth Jane, Maida Vale Mansions, W.
205	1890. May.	†NURCOMBE, Benjamin, 1, Jasmine Terrace, Wurtemberg Street, Clapham, S.W.
205	1890. June.	†NUTLEY, Charles Vernon, 11, Dalling Road, Hammer-smith, W.
317	1890. Oct.	†OLIVER, G., 14, St. John's Road, Waterloo, Liverpool.
160	1889. Mar.	†OLLETT, John Henry, Sanitary Inspector, Eastbourne.
764	1893. June.	†OLMS, John James, Hill Farm, Saltford, Bristol.
613	1892. Oct.	†ORCHARDSON, Robert, 88, North Road, St. Helens, Lancashire.
213	1889. Nov.	ORD, James, 11, Portman Street, W., (41, Upper George Street, W.).
322	1892. Feb.	†ORRELL, Thomas, 44, Fernon Street, Darwen.
633	1892. Sept.	†OSBORNE, Walter, 13, Third Street, Bensham, Gateshead.
105	1891. Nov.	†OUTRAM, Mason, 35, Stafford Street, Derby.
770	1893. June.	†OWEN, William, Glyn Garth Post Office, Anglesea.
715	1893. May.	†PACY, William, Verona Villas, Arboretum Road, Worcester.
61	1888. Oct.	PALLISER, Christopher, Northallerton.
703	1893. Feb.	†PALMER, Herbert Albert, 70, Leander Road, Josephine Avenue, Brixton Hill, S.W.
721	1893. July.	†PALMER, Isaac Fairley, Ewell Road, Surbiton Hill, S.W.

Reg. No.	Date of Election.	Name and Address.
622	1892. July.	‡PALMER, James, 1, <i>Tanner's Hill, Broadway, Deptford, S.E.</i>
630	1892. Oct.	‡PANK, Richard Arnold, <i>St. Andrew's, Norwich.</i>
463	1891. June.	‡PARAMOR, Robert Walter, 16, <i>Randolph Gardens, Dover.</i>
257	1890. May.	‡PARHAM, John, Junr., 5, <i>Edison Road, Crouch End, N.</i>
663	1893. Jan.	‡PARKINSON, Arthur Charles, 27, <i>Southampton Row, W.C.</i>
474	1891. Dec.	PARKINSON, Herbert William, 11, <i>Gloucester Road, South Kensington, S.W.</i>
703	1893. Feb.	‡PARSLEY, Frederick Wm., 3, <i>Upper Montagu Street, Montagu Square, W.</i>
670	1893. Jan.	‡PATCHING, Walter C., 9, <i>Chapel Road, Worthing.</i>
671	1893. Jan.	‡PATCHING, William George, <i>Belfort, Worthing.</i>
763	1893. June.	‡PATERSON, Arthur William, <i>Station Road, New Barnet, Herts.</i>
244	1890. May.	‡PATTISON, William Phillip, <i>White House, Benwell, Newcastle-on-Tyne.</i>
411	1891. June.	‡PEAKE, Thomas Jones, 61, <i>Wyghambury Road, Willaston, Nantwich.</i>
427	1891. June.	PEARCE, Frederick James, <i>Borough Surveyor's Office, Kingston-on-Thames.</i>
66	1888. Oct.	‡PEARSON, John, <i>Sanitary Inspector, Grace Hill, Folkestone.</i>
744	1893. July.	‡PENGELLY, John Isaac, 15, <i>St. James's Road, Exeter.</i>
97	1888. Nov.	‡PERRY, Arthur, 45, <i>Townshend Road, St. John's Wood, N.W.</i>
133	1889. Feb.	‡PETTIT, George Mackness, 22, <i>Chesterton Road, North Kensington, W.</i>
661	1893. Feb.	‡PHILLIPS, Charles, 68, <i>Swinton Street, Gray's Inn Road, W.C.</i>
243	1890. May.	‡PHILLIPS, Henry, 66, <i>Park Lane, Earltam Road, Norwich.</i>
627	1892. Sept.	‡PIDWELL, Engall Thomas, 12, <i>Peak Hill Avenue, Sydenham, S.E.</i>
919	1893. Nov.	‡PIERCY, Edmund Ernest, 20, <i>Fentiman Road, Clapham, S.W.</i>
432	1891. July.	‡PILBEAM, Francis Newcastle, 72, <i>Davenport Road, Shepherd's Bush, W.</i>
267	1891. Feb.	‡PILLOW, Mrs. Margaret Eleanor, 2, <i>Carlton Terrace, Mill Hill Road, Norwich.</i>
730	1893. Apr.	‡PITCHFORTH, Samuel A., 3, <i>Chestnut Villas, Foleshill, Warwick.</i>
233	1890. Jan.	POOLE, James, 2, <i>Trafalgar Place, Kensington, W.</i>
702	1893. Feb.	‡PORTER, John James, <i>Halse Road, Brackley, Northampton.</i>
67	1888. Oct.	‡POTTER, Ben, 17, <i>Ranelagh Road, Ealing, W.</i>

Reg. No.	Date of Election.	Name and Address.
70	1893. Oct.	‡POTTER, Edwin James, <i>Honiton House, Saltram Crescent, W.</i>
103	1889. Jan.	‡POTTER, Thomas Wickford, <i>Estate Works, Thoresby Park, Ollerton, Notts.</i>
123	1889. Jan.	‡PRATT, Joseph, 12, <i>Kirkdale, Sydenham, S.E.</i>
104	1889. Mar.	‡PRESS, William James, <i>Rose Villa, Abingdon Street, Burnham, Somerset.</i>
78	1893. Nov.	‡PRESTON, Alfred Pearce, 42, <i>Arran Street, Cardiff, Glamorganshire.</i>
60	1892. Oct.	PRINGLE, Andrew, <i>Cromwell House, Bexley Heath, Kent.</i>
6	1888. Oct.	PROGER, John L., 11, <i>Cwrtiy-vie Road, Penarth, Cardiff.</i>
72	1893. Feb.	‡PUDDE, Walter Louis, 17, <i>Somerville Terrace, Sheffield, Yorkshire.</i>
70	1893. May.	‡PURNELL, Arthur Edward, 123, <i>Harbut Road, New Wandsworth, S.W.</i>
82	1893. Oct.	‡QUICK, Edward Hare, <i>Sanitary Inspector, Lymptone, Devon.</i>
69	1888. Oct.	‡RAINS, Joseph, <i>Kettering.</i>
60	1893. Feb.	‡RANCE, John Walter, 111, <i>Page Street, Westminster, S.W.</i>
74	1893. July.	‡RAYNER, George, <i>The Green, Downham Market, Norfolk.</i>
74	1893. Feb.	‡READ, Walter Herbert, 1, <i>Cornwall Terrace, N.W.</i>
317	1892. Feb.	‡REAVELL, Frank Noble, 97, <i>Benthall Road, Stoke Newington, N.</i>
70	1888. Oct.	‡REAVELL, George, Junr., <i>Alwrick, Northumberland.</i>
731	1893. Apr.	‡REID, Thomas Alexander, <i>Care of D. Reid, Ley of Hallyburton, Coupar-Angus.</i>
71	1888. Oct.	‡RICHARDS, Daniel, <i>Elwyn Villa, South Molton.</i>
606	1892. June.	‡RICHARDS, William, 18, <i>Nunhead Grove, Peckham Rye, S.E.</i>
703	1893. Oct.	‡RICHARDSON, Frederick, <i>High Street, Brasted, Sevenoaks, Kent.</i>
723	1893. Apr.	‡RITCHIE, Peter, 23, <i>Georgiana Street, Camden Town, N.W.</i>
731	1893. May.	‡ROBERTS, Peter James, 141, <i>Union Street, Ashton-under-Lyne, Lancashire.</i>
263	1890. Apr.	‡ROBERTSON, John Shirras, <i>Princes Street, Thurso.</i>
614	1892. July.	‡ROBINS, H. G., 29, <i>West End Lane, N.W.</i>
224	1890. Jan.	‡ROBINSON, John, 79, <i>Lavender Road, Clapham Junction, S.W.</i>
307	1892. Feb.	‡ROBSON, Lancelot, 12, <i>Stockton Street, West Hartlepool.</i>
633	1892. Sept.	‡RODWELL, Ascough, <i>Union Offices, Skipton, Yorkshire.</i>
110	1891. July.	‡ROE, Edward Charles, Junr., 23, <i>Oxberry Avenue, Fulham, S.W.</i>
72	1888. Oct.	‡ROGERS, Richard, <i>Maes Hleu, Carnarvon.</i>

Reg. No.	Date of Election.	
542	1892. May.	‡ROPER, Joseph Stanley, <i>Surveyor and Inspector to Rural Sanitary Authority, Greenway Court, Hollingbourne, Maidstone.</i>
706	1893. Feb.	‡ROSHIER, Edward, 31, <i>York Street, Unthinks Road, Norwich.</i>
422	1891. June.	‡ROSSITER, Robert Herbert, 15, <i>Sloane Terrace, Sloane Street, Chelsea, S.W.</i>
614	1892. Oct.	‡ROTHERA, Frederick, 13, <i>South View, Sowerby Bridge, Yorkshire.</i>
620	1892. July.	‡ROW, Edmund, 154, <i>Barking Road, Canning Town, Essex.</i>
449	1891. Nov.	ROWE, William Thomas Ferdinand, 41, <i>Old Town Street, Plymouth.</i>
463	1891. Nov.	‡ROWLAND, Arthur, 5, <i>Cambridge Street, Hull.</i>
605	1892. June.	‡ROWLAND, Samuel, <i>Local Board Offices, Pontypridd.</i>
563	1892. May.	‡ROYLE, Charles, 51, <i>Wormgate, Boston, Lincoln.</i>
760	1893. June.	‡RUGG, John Edward, <i>The Vestry of St. Luke's, City Road, E.C.</i>
722	1893. July.	‡RUGG, Samuel Horace, 165, <i>Earls Court Road, Kensington, W.</i>
253	1890. May.	‡RUSCOE, Ernest Henry, 6, <i>Great Castle Street, Regent Street, W.</i>
601	1893. Feb.	‡RUSCOE, Frank Harvey, 6, <i>Great Castle Street, Regent Street, W.</i>
721	1893. Apr.	‡RUSHTON, Egbert, 9, <i>Kendal Street, Blackburn.</i>
203	1889. July.	‡RYDER, Albert Thomas, 2, <i>Cavendish Street, Bedford.</i>
123	1889. Jan.	‡SADLER, Richd. J., <i>Woodcote, Ormley Road, Balham, S.W.</i>
73	1888. Oct.	‡SALTER, Thomas, 2, <i>King's Road, St. Leonards-on-Sea.</i>
719	1893. May.	‡SANDERSON, Isaac, <i>Sunnybrow, Willington, Durham.</i>
550	1892. May.	‡SANDON, Edward H., 327, <i>Harrow Road, W.</i>
233	1890. May.	‡SAUNDERS, Percy, 46, <i>Jarvis Road, South Croydon, S.W.</i>
733	1893. July.	‡SCHLUND, William Theodore, 46, <i>Kemp Street, Brighton.</i>
639	1893. Feb.	‡SCOTT, Sarah, 130, <i>Strand Road, Bootle, Liverpool, Lancashire.</i>
74	1888. Oct.	SEDGWICK, Sydney, <i>Sidmouth Villa, 195, Tulse Hill, S.W.</i>
793	1893. July.	‡SHARMAN, Edward Mansfield, 104, <i>Acomb Street, Greenheys, Manchester.</i>
660	1892. Nov.	SHARPE, William Charles, <i>Morecambe Villa, Great Grimsby, Lincoln.</i>
210	1890. Feb.	‡SHAW, Peter, 98, <i>Church Street, Fulham Road, S.W.</i>
676	1893. Jan.	SHEARING, Arthur George, 308, <i>Kentish Town Road, N.W.</i>

Reg. No.	Date of Election.	
122	1889. Jan.	‡SHELDON, W. E., <i>c/o R. J. Sheldon, Esq., Thanet Villa, Buckhurst Hill.</i>
412	1892. Feb.	‡SHILL, Albert Edmund, 108, <i>College Place, N.W.</i>
77	1888. Oct.	‡SHORE, Ambrose J., 68, <i>Adys Road, East Dulwich, S.W.</i>
172	1889. Apr.	‡SHORT, James Allen, <i>Sanitary Department, Wigan.</i>
531	1892. Apr.	‡SHUTTLEWORTH, William, <i>Town Hall, Salford, Lancashire.</i>
173	1889. Apr.	‡SIDWELL, Henry Thomas, <i>Blean District Surveyor's Office, near Railway Station, Herne Bay, Kent.</i>
174	1891. July.	‡SIMMONS, Edward John, 80, <i>Paulet Road, Camberwell, S.E.</i>
74	1888. Oct.	‡SIMMONS, Nimrod, <i>Glendale, Clifton, Bristol.</i>
621	1893. Nov.	‡SIMMS, Frederick, 29, <i>Adelaide Street, St. Giles, Oxford.</i>
271	1890. May.	‡SIMPSON, John, 56, <i>Chapel Street, Aberdeen.</i>
427	1892. Feb.	‡SIMPSON, R. D. J., <i>Knott Street, Deptford, S.E.</i>
446	1891. Nov.	SINCLAIR, PROF. William A., M.D., A.M., <i>Howard University, Washington D.C., U.S.A.</i>
512	1892. Feb.	‡SLATER, Herbert, 24, <i>Bond Street, Leeds.</i>
352	1891. Feb.	‡SMALL, Walter Herbert, <i>Station Road, St. Dunstons, Canterbury.</i>
631	1892. Oct.	‡SMITH, Fred. William, 92, <i>St. Leonard Gate, Lancaster.</i>
512	1892. Feb.	‡SMITH, George, 6, <i>Henry Street, St. John's Wood, N.W.</i>
70	1888. Oct.	‡SMITH, George Allen, <i>Vestry Hall, Hampstead, N.W.</i>
64	1893. Feb.	‡SMITH, Hamilton, 1, <i>Oxford Road, Putney, S.W.</i>
701	1893. July.	‡SMITH, Henry J., 91, <i>Malvern Road, West Kilburn, N.W.</i>
552	1892. Apr.	‡SMITH, Joseph Chas., 28, <i>Livingstone Place, Roundhay Road, Leeds.</i>
315	1890. June.	‡SMITH, Joseph Sidney, 73, <i>Elm Park, Brixton Hill, S.W.</i>
712	1893. May.	‡SMITH, Joseph Weedy, 8, <i>St. James Road, Carlisle, Cumberland.</i>
557	1892. May.	‡SMITH, Percy A., 474, <i>New Cross Road, S.E.</i>
597	1892. June.	‡SMITH, Richard, Jun., <i>Salterns Rd., Parkstone, Dorset.</i>
331	1890. Nov.	SMITH, Sydney, <i>Dorset Cottage, Hastings Road, Bexhill.</i>
416	1891. June.	‡SMITH, Warren B., 66, <i>College Street, Chelsea, S.W.</i>
234	1890. June.	‡SMITH, W. H., 60, <i>Alma Vale Road, Clifton, Bristol.</i>
774	1893. June.	‡SMITH, William, <i>Preston, The Hyde, N.W.</i>
631	1892. Sept.	‡SMITHIES, Arthur, <i>Local Board, Castleford, Yorkshire.</i>
60	1888. Oct.	‡SOPER, Henry Charles, 108, <i>Park Street, Camden Town, N.W.</i>
65	1888. Oct.	‡SORTWELL, W., 14, <i>Retreat Place, Paragon Road, Hackney, E.</i>

Reg. No.	Date of Election.	Name and Address.
693	1893. Jan.	‡SOUTER, Charles, <i>Kingsnorth House, West Malling, Kent.</i>
81	1888. Oct.	SOUTHPORT, The Mayor and Corporation of, <i>Southport.</i>
312	1891. Feb.	‡SPENCER, Julius, 6, <i>Lord Street, Keighley.</i>
793	1893. July.	‡SQUIRRELL, Henry T., 5, <i>Station Road, Beachill, Sussex.</i>
82	1888. Oct.	‡STANLEY, A. W., <i>Newington, Hull.</i>
310	1892. Mar.	‡STANSFELD, Alfred, 2, <i>Tokenhouse Buildings, E.C.</i>
801	1893. Oct.	STAR, William Frost, 143, <i>Brixton Road, S.W.</i>
83	1888. Oct.	‡STEEERS, George, 21, <i>Brereton Road, Bedford.</i>
84	1888. Oct.	‡STEVENSON, John, <i>Surveyor's Office, East Molesey, Surrey.</i>
353	1892. May.	‡STEWART, James, 28, <i>Crozier Street, Westminster Bridge Road, S.E.</i>
812	1892. Oct.	‡STEWART, Robert Tomlinson, <i>Thorpe-le-Soken, Essex.</i>
822	1893. Nov.	‡STEWART, T. D., <i>Sanitary Inspector, Cupar Fife, N.B.</i>
863	1891. Feb.	‡STOLLERY, William, <i>Dust Depot, Culvert Road, Battersea, S.W.</i>
795	1893. July.	‡STONE, Alfred William, <i>Glenview, Long Ashton, Clifton, Bristol.</i>
827	1893. Dec.	‡STRATHON, William Henry, 3, <i>Auburn Place, Plymouth.</i>
823	1893. Nov.	‡STREAT, John, <i>Ottery St. Mary, Devon.</i>
174	1889. Apr.	‡STRUTT, Thomas Frederick, 5, <i>Tavistock Street, Covent Garden, W.C.</i>
652	1892. Nov.	‡SURTEES, Richard Thos., 29, <i>Old Gate Street, Morpeth, Northumberland.</i>
457	1892. Jan.	‡SUTCLIFFE, Alfred, <i>Featherstone Local Board, Pontefract.</i>
239	1890. Feb.	‡SUTHERLAND, Walter, 8, <i>Voclas Street, Liverpool.</i>
321	1890. Nov.	‡SUTTLE, Alfred, <i>Manor Square, Otley.</i>
821	1893. Nov.	‡SWIRE, Henry, 30, <i>Sheep Street, Skipton, Yorkshire.</i>
451	1891. Dec.	‡SWITZER, Sidney A., 3, <i>Marcham Road, Horncastle, Lincolnshire.</i>
325	1890. Nov.	‡SYDENHAM, Sydney, 37, <i>Broad Street, Bath.</i>
759	1893. July.	‡SYKES, Miss Edith Elizabeth, <i>Woodleigh, East Dulwich Grove, S.E.</i>
110	1889. Jan.	‡TAIT, James, <i>Roslyn Place, Dean Street, Kilmarnock.</i>
127	1889. Jan.	‡TATE, William, 29, <i>Kenilworth Road, Kilburn, N.W.</i>
405	1891. June.	‡TAYLOR, Albert, <i>Vestry Hall, Mount Street, W.</i>
639	1892. Nov.	‡TAYLOR, Harry James, <i>Sturminster Newton, Dorset.</i>
472	1891. Nov.	‡TAYLOR, Harry William, <i>Surveyor's Office, Newburn-on-Tyne.</i>
321	1890. Nov.	‡TAYLOR, Henry Thomas, 7, <i>Wilton Road, Rock Ferry, Cheshire.</i>
123	1889. Jan.	‡TAYLOR, James, 17, <i>Oxford Street, Hereford.</i>
273	1890. May.	‡TAYLOR, James, 10, <i>Mount Pleasant, Waterloo, Liverpool.</i>

Reg. No.	Date of Election.	Name and Address.
511	1892. Mar.	‡THATCHER, Albert George Hendy, <i>Hampton Court Palace, W.</i>
714	1893. Apr.	‡THOMAS, Charles L., 30, <i>Berkely Place, Clifton, Bristol.</i>
279	1890. May.	‡THOMAS, George, 17, <i>de Beauvoir Square, de Beauvoir Town, N., and City of London Electric Lighting and Engineering Office, Portland House, Basinghall Street, E.C.</i>
86	1888. Oct.	‡THOMAS, Thomas, 4, <i>Chandos Road, Redlands, Bristol.</i>
81	1888. Oct.	‡THOMAS, W. K., 42, 43 & 44, <i>Triangle, Clifton, Bristol.</i>
316	1890. Oct.	THOMPSON, Bernard H., 28, <i>St. Mark's Terrace, New Brompton, Kent.</i>
603	1893. Feb.	‡THORNTON, Richard, <i>Sanitary Inspector, Kuton, Staffordshire.</i>
110	1889. Feb.	‡THORPE, James, 19, <i>King Edward Street, Macclesfield.</i>
117	1892. Mar.	‡TITMUS, Joseph E., 31, <i>Trinity Road, Wood Green, N.</i>
222	1890. June.	‡TOMKINS, Alfred, 62, <i>Church Street, Camberwell, S.E.</i>
412	1891. Nov.	‡TOMKYS, F. L., <i>Ycovil, Somerset.</i>
512	1892. Mar.	TRAVIS, David, <i>Chief Sanitary Inspector, Halifax.</i>
322	1890. Nov.	‡TRIGG, Henry John, 6, <i>Palmerston Road, Hayling Island, Hants.</i>
136	1891. July.	‡TROWSDALE, Tom James, 12, <i>Leybourne Terrace, Stockton-on-Tees.</i>
87	1888. Oct.	TUCKEY, George F., 47, <i>Milk Street, Bristol.</i>
692	1893. Feb.	‡TUTTEE, William, Junr., 50, <i>Parrock Street, Gravesend, Kent.</i>
303	1890. June.	‡TURNER, Alfred, 49, <i>Ellora Road, Streatham, S.E.</i>
716	1893. May.	‡TURNER, Frederic Richard, <i>The Plough Inn, Tewkesbury.</i>
374	1891. Mar.	‡TWAITS, James, 25, <i>Leopold Street, Burdett Road, Mile End, E.</i>
313	1890. Dec.	VEASEY, Thomas Frederick, ASSOC.M.INST.C.E., <i>care of O. H. Veasey, Bridge House, Huntingdon.</i>
772	1893. June.	‡VEST, Theodore, 75, <i>Queen's Park Road, Brighton, Sussex.</i>
344	1891. Mar.	‡WADDINGTON, Thos. W., 8, <i>Albert Street, Padliham.</i>
711	1893. Feb.	‡WADMORE, Alice, 15, <i>Fairfax Road, South Hampstead, N.W.</i>
525	1893. Dec.	‡WAGSTAFF, William Henry, 16, <i>Mapperley Road, Nottingham.</i>
712	1893. Feb.	‡WAKE, Richard, 619, <i>Wandsworth Road, Clapham, S.W.</i>
625	1892. Sept.	‡WALL, Samuel Edward, A.R.I.B.A., 26, <i>Mount View Road, Stroud Green, N.</i>
83	1888. Oct.	WALLACE, Miss J., 6, <i>Hyde Park Gardens, W.</i>
215	1889. Nov.	WALLAS, Irwin Clarke, 41, <i>Cavendish Road, Clapham Common, S.W.</i>

Reg. No.	Date of Election.	Name and Address.
642	1893. Feb.	†WALLIS, William, 13, Gilbert Road, Kennington, S.E.
646	1893. Feb.	†WANE, William, 26, Manchester Street, Southampton.
473	1890. May.	†WANSBROUGH, Cecil Shartman, Arlington Villa, Barrow-in-Furness.
561	1892. May.	†WARRAS, William Ernest, 5, Broad Park Villas, Whitechurch Road, Tavistock.
677	1893. Jan.	†WARREN, William Thomas, Sanitary Inspector's Office, Vestry Hall, Chiswick, S.W.
453	1892. Jan.	†WATSON, Harry John James, 5, Upper John St., W.
531	1892. Mar.	†WATSON, Thomas, Kirkoswald, Cumberland.
492	1892. Jan.	†WATSON, William Hill, Vestry Hall, Piccadilly, W.
24	1888. Nov.	†WATTS, George Nelson, 147, High Street, Notting Hill, W.
232	1890. Jan.	†WATTS, Gerald, 44, London Road, Grays, Essex.
216	1890. Feb.	†WATTS, William Frederick, Bitterne, Southampton.
571	1892. May.	†WEATHERITT, James, Town Hall, Newcastle-upon-Tyne.
49	1888. Oct.	†WEBB, James A., Town Hall, Fulham, S.W.
823	1893. Nov.	†WEBSTER, John William, 3, Lanhill Road, Paddington, W.
519	1890. Nov.	†WEEKS, Alfred James, Clovelly, The Grove, Earlsfield Road, Wandsworth, S.W.
20	1888. Oct.	†WELLS, G. F., 37, Prospect Street, Hull.
576	1892. May.	†WELLS, William James, Lower Kingswood, Reigate.
593	1892. June.	†WHITE, William, 27, Harvey Street, Folkestone.
733	1893. May.	†WHITE, William L., New Street, Upton-on-Severn, Worcester.
771	1891. Feb.	†WHITE, William Owen, 8, Albert Street, Banbury.
54	1892. Feb.	†WHITHAM, Joseph, Shelf, Halifax.
103	1891. June.	†WHITTOME, Philip Alfred, The Chestnuts, Rothsay Road, Bedford.
311	1892. Mar.	†WILKINSON, George H., 83, Townsend Lane, Anfield, Liverpool.
61	1888. Oct.	†WILKINSON, W., Ford Street, Derby.
574	1892. May.	†WILKINSON, William, Altofts, Normanton.
754	1893. May.	†WILKS, Henry, Bramham, Boston Spa, Yorkshire.
320	1890. Nov.	†WILLBOND, George Baines, Guildhall, Nottingham.
612	1892. Oct.	†WILLIAMS, George, 6, Priory Road, Everton, Liverpool.
494	1892. Feb.	†WILLIAMS, Joseph, 30, Goldhurst Terrace, Finchley Road, N.W.
515	1892. Mar.	†WILLIAMS, Richard Jun., Little Woolton Local Board, Gateacre, Liverpool.
162	1889. Mar.	†WILSON, Charles Turle, 37, Burney Street, Greenwich, S.E.
193	1889. June.	†WILSON, John, Town Hall, Kensington, W.
266	1889. July.	†WILSON, William, 5, Windsor Terrace, South Shields.
611	1892. Oct.	†WINDSOR, William, 13, Sutcliffe Street, Liverpool, E.
92	1888. Oct.	†WINSER, F. Sawyer, 52, Buckingham Palace Road, S.W.

Reg. No.	Date of Election.	Name and Address.
642	1892. June.	†WINSBORROW, Edwin James, Town Hall, Westminster, S.W.
153	1889. Apr.	†WINTER, Edward, 82, Church Road, Hove, Brighton.
67	1892. Nov.	†WOOD, Alfred, Bury, Lancashire.
40	1891. July.	†WOOD, Charles Bruce, 37, Irene Road, Parsons Green, S.W.
66	1892. June.	†WOOD, Charles Fred, 1, Cedar Villas, W. Hampstead, N.W.
151	1889. Jan.	†WOOD, Peter, 177, Ashmore Road, Paddington, W.
7	1889. July.	†WOODCOCK, Henry, 16, Steelhouse Lane, Birmingham.
61	1891. Nov.	†WOODSON, William, 1A, Charles Street, Pendleton, Manchester.
63	1893. Jan.	†WOODHEAD, Fletcher, 56, Gordon Street, Burnley.
51	1892. Feb.	†WOODMAN, Henry Frederick, 41, Glengall Road, Kilburn, N.W.
65	1893. Feb.	†WOOLNORGH, Tom, Northolme, Aberdeen Road, Highbury, N.
63	1893. Jan.	†WRIGHT, John Henry, Junr., 2, Grosvenor Place, Bealey Heath, Kent.
124	1889. Jan.	†WRIGHT, John, Junr., 3, Surbiton Park Terrace, Kingston-on-Thames.
53	1893. Oct.	†WRIGHT, Samuel William, 17, Melville Road, Ford, Devonport.
591	1892. Feb.	†YATES, Robert, 42, Lupus Street, St. George's Sq., S.W.
61	1892. Jan.	†YOUNG, Frank Russell, 60, Elmsdale Road, Walthamstow, Essex.
512	1892. Mar.	†YOUNG, Isaac, 39, Dorothy Road, Lavender Hill, S.W.

NOTE.—It is particularly requested that the Secretary may be informed, in writing, of every decease and change of address; also of any errors or omissions that occur in the list of members.

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Member:—

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EATON-SHOPE, George, ASSOC.M.INST.C.E.
HUNTER, A. H.
MARSDEN, Robert Sidney, M.D., F.R.S.E., M.O.H.

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BURSLAM, Randle.
DAVIES, Thomas.
DAWSON, William.
HOBBS, W. F.
HUGHES, Edward J.
MILLS, Joshua George.
PEAKE, Thomas Jones.
TAYLOR, Henry Thomas.
THORPE, James.

CORNWALL.

Fellow:—

OILLARD, J. F.

CUMBERLAND.

Fellows:—

EATON, John, M.D.
SMITH, Willm. Howard, ASSOC.M.INST.C.E.

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EDGE, Frederic James, ASSOC.M.INST.C.E.
WILSON, J. B.

Associates:—

SMITH, Joseph Weedy.
WATSON, Thomas.

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KILFORD, Henry James.
LINGARD, J. Edward.
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 ter, V.
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 LACY, William George.
 LAMBERT, Joshua.
 LAVENDER, Charles Henry Nalder.
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 LE GRAND, A.
 LEONARD, Hugh.
 LE ROSSIGNAL, Francis, F.S.I.
 LETTS, Thomas Hollins.
 LITTLE, John Fletcher, M.B., M.R.C.P.,
 M.O.H.
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 LLOYD, Robert Samuel.
 LOANE, Joseph, M.R.C.P.E., D.P.H., M.O.H.
 LYNDE, Fredk. Charles, ASSOC.M.INST.C.E.
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 MACKAY, John B.
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 MARTINEAU, E. H., F.R.I.B.A.
 MATHEWS, J. Douglass, F.R.I.B.A., F.S.I.
 MCARTHUR, A., J.P., D.I.
 MCKIE, Hugh Umsworth, M.INST.C.E.

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 MINEARD, George Edward, F.R.H.S.
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 MONTAGU, Samuel.
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 NANSON, Tom.
 NASH, BRIGADE-SURGEON William, M.D.
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 PARNACOTT, Alfred, F.S.I.
 PARSONS, H. Franklin, M.D.
 PATEY, Charles Arthur, L.R.C.P., M.O.H.
 PASTEUR, William.
 PHELPS, William.
 PILLEY, John J.
 POWELL, George Thompson.
 PRIESTLEY, Lady Eliza.
 PRITCHETT, G. E., F.S.A., F.R.I.B.A.
 PURNELL, E. W.
 PURNELL, W. J.
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 RICHMOND, John.
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 SHAW, Josephus, M.R.C.S., L.S.A., M.O.H.
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 THOMPSON, Thos. Wm., L.R.C.P., M.R.C.S.,
 D.P.H., M.O.H.
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 TRAVERS, William, M.D., F.R.C.S.
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 [C.E.]
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 L.R.C.P., D.P.H.
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 F.R.C.P., F.R.MET.SOC.
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 WOOD, William, M.D.
 WORTH, John Edward, ASSOC.M.INST.C.E.,
 F.R.MET.SOC.
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 ADAMS, Miss Rose.
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 ANDREWS, Daniel James.
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 ANTHONY, Frederick Joseph.
 ARMSTRONG, Joseph.
 ASHDOWN, Thomas.
 ASHLEY, Sydney.
 ATHEX, Frederick.
 ATKINS, Robert William.
 AYLIFFE, Charles William Loveless.
 BARFOOT, James.
 BABBETT, Henry James.
 BARTH, Frederick Alfred.
 BARTLETT, William John.
 BARRON, John.
 BASSETT, William Joshua.
 BAXTER, Frank E.
 BAXTER, John.
 BENNETT, Edward.
 BIRCH, John Ernest William.
 BLAKE, E. T., M.D.
 BLAKE, H. K.
 BLAY, Ernest Berrenger.
 BONE, William Homersham.
 BOYCE, W.
 BOYD, Richard Wade.
 BRIDEL, H. F.
 BROAD, Clement B.
 BROWN, Robert, Jun.
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 BUCKTON, Walter.

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 CAVE, James.
 CHAPPELL, William.
 CHESTERFIELD, William James.
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 CLARK, John Edwin.
 CLARKE, Robert Edwyn.
 CLIFTON, Henry Charles.
 COCKBURN, Henry Mace.
 COOK, Alfred.
 COOK, William Gough.
 CORP, James.
 COWPER, Joseph.
 COXILL, George E.
 CRANE, Stephen.
 CRONK, William Robert.
 CROSSE, Hammond William.
 CULVER, Thomas Henry.
 DAVIES, T. Lane.
 DAVIS, John Edward.
 DEE, Thomas George.
 DENSHAM, Charles A.
 DOCKING, Frederick Reynolds.
 DOVER, John Henry.
 DUNN, James Stephen.
 DYKE, Alfred William.
 EDMONDS, William H.
 EDWARDS, John.
 ELMS, Thomas Hood.
 EVANS, John Evan.
 EVANS, Percival Baker.
 FAIRCHILD, Samuel C. G.
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 FEW, Herbert Arthur.
 FISHER, Robert.
 FOAD, Cephas.
 FOLLAND, John Percy.
 FORDHAM, William Francis.
 FRENCH, Harry Cramphorn.
 GARNHAM, Albert Edward.
 GATHERCOLE, William Henry Joseph.
 GEARY, Reginald.
 GENTRY, Herbert John.
 GILBEART, John Joseph.
 GOLDS, Thomas William.
 GOODMAN, Herbert.
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 GRANT, Alexander.
 GREEN, William.
 GRIGG, William Henry.
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 HANNANT, William B.

HART, John William.
 HARTNOLL, Francis.
 HARVEY, William.
 HEAD, Arthur Parr.
 HEAD, Robert H.
 HEARN, Walter.
 HELSDON, Horace.
 HENLEY, Amos S.
 HELLS, Arthur Reginald.
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 HOOPER, Thomas Henry.
 HOOPER, William.
 HORTON, Richard.
 HORTON, William.
 HOUGHTON, Robert Alfred.
 JARRATT, Edward John.
 JELLS, John.
 JOHNSON, John William.
 JONES, John.
 JONES, Julius Morris Wilson.
 JURY, H. A.
 KELE, Charles Harvey.
 KEMSLEY, Jesse.
 KENNEDY, Daniel.
 KERSHAW, Edward Baxter.
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 KING, Albert S. W.
 KITE, Charles.
 KNIGHT, William Henry.
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 LANDER, James.
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 LAWRENCE, James.
 LEACH, Robert.
 LEAR, James Walter.
 LEGG, S. C.
 LEVERTON, John Henry.
 LEWIS, James.
 LIGHTFOOT, William Charles.
 LILLY, William Gent.
 LOCKWOOD, Arthur Charles.
 LUND, Jeremiah.
 MACINTOSH, James.
 MACKAY, James John.
 MADGE, Frank William.
 MARRABLE, Horace.
 MAY, William H.
 McDONALD, A. L.
 MILLER, Frederick William.
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 MITCHELL, Edward.
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 PALMER, Isaac Fairley.
 PALMER, James.
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 PARKINSON, Herbert William.
 PARSLEY, Frederick William.
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 PHILLIPS, Charles.
 PIDWELL, Engall Thomas.
 PIERCE, Edmund Ernest.
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 POOLE, James.
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 PRATT, Joseph.
 PURSELL, Arthur Edward.
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 READ, Walter Herbert.
 REAVELL, Frank Noble.
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 RITCHIE, Peter.
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 ROBINSON, John.
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 RUGG, John Edward.
 RUGG, Samuel Horace.
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 RUSCOE, Frank Harvey.
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 SMITH, George Allen.
 SMITH, Hamilton.
 SMITH, Henry J.
 SMITH, Joseph Sidney.
 SMITH, Percy A.
 SMITH, Warren B.
 SMITH, William.
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 SORTWELL, W.
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 STAR, William Frost.
 STEWART, James.
 STOLLERY, William.
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 THATCHER, Albert George Hendy.

THOMAS, George.
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 TURNER, Alfred.
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 WAKE, Richard.
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 WALLIS, William.
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 WATSON, Harry John James.
 WATSON, William Hill.
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 WEEKS, Alfred James.
 WILLIAMS, Joseph.
 WILSON, Charles Turle.
 WILSON, John.
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 WOOD, Charles Bruce.
 WOOD, Charles Fred.
 WOOD, Peter.
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 WOOLNOUGH, Tom.
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 YOUNG, Isaac.

MIDDLESEX.

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TWNING, Thomas.

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 JACOB, Oswald.
 MASON, Frederick William.
 MUNRO, Andrew John
 POTTER, Benjamin.

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MITCHELL, Lewis.
NASMYTH, Thomas Goodall, M.D., D.S.C.
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THOMPSON, Gilbert.
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WILLIS, George, L.F.P.S.G., M.O.H.

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CURRIE, Thomas.
DALRYMPLE, Alexander.
DUNBAR, David.
DUTHIE, Alexander.

Scotland—Continued.

GAIRDNER, Prof. W. T., M.D., LL.D., F.R.S.
GUNN, Alexander.
HAY, Alexander.
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MACLENNAN, John.
MARTIN, William, Jun.
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ELLIS, Stanley.
GOODWYNN, Arthur Ayde.
HOOPER, Thomas Rowland.
HORNCastle, Henry.
INGRAM, William Jones.
KEAL, J.

SURREY—Continued.

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PEARCE, Frederick James.
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GRANT, Walter.
GRIVELL, Elias James.
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LINTOTT, John.
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OLLETT, John Henry.
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PATCHING, William George.
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THOMAS, W. E. C., ASSOC.M.INST.C.E.
WILLIAMS, Owen.
WILLIAMS, William, M.A., M.D., D.P.H.
OXON., M.R.C.S., L.S.A.

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CAWSEY, Thomas.
DAVID, Philip.
DAVIES, Dan.
DAVIES, Edward Plummer.
EVANS, John Isaac.
HARRISON, Edward Stanhope.
JENKINS, David.
JOHNS, David James.
JONES, William.
KNOWLES, James Edward.
MEAZEY, Thomas.
MORGAN, William.
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ROGERS, Richard.
ROWLAND, Samuel.

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SMITH, R. W.

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BROOK, John.
FRANCE, T. W. Chapman.
GOSALL, Henry John.
HANSON, J. H.
LOPSON, John Baird.
PITCHFORTH, Samuel.
WOODCOCK, Henry.

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