

ENGLISH HOMES.

LECTURE TO THE CONGRESS,

BY

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THE objects for which The Sanitary Institute has been established have been so frequently and lucidly set forth in addresses, delivered from time to time at these Congresses and published in our Transactions, that this aspect of the duties devolving upon the Chairman of Council may be briefly disposed of. The Institute is making rapid strides in its development, and the good work done by it in spreading abroad sound views on the principles, and practical knowledge regarding the details of domestic and personal hygiene, is now generally acknowledged. There is still much to be done, however, before the public at large can be brought to see the enormous waste in money, and the suffering and privation entailed upon the people, and most of all upon the poor, by the prevalence of preventible disease. Why is this so? Why should a people, conspicuous for many of the best qualities which contribute to a nation's success, still fall far short of domestic virtues which were successfully cultivated in the infancy of the human race?

Canon Knox-Little lays stress on the fact that there are certain qualities and endowments which are peculiarly the heritage of our race, and which were conspicuous in those northern hordes who contributed so largely to overthrow the Roman Empire. Their sources of strength were truthfulness, plainness and simplicity of life, a strong sense of justice, impatience of affectation and pretence, dislike of exaggeration, and contempt for all forms of sham. "They valued the virtues of purity; the virtues which lead men to respect their own souls and bodies, and therefore the bodies and souls of others; which make friendship noble and enduring, and love ennobling and strong; which feed the fire of true affection between friend and friend, between lover and lover, between child and parent, and parent and child; out of which have been created those 'schools of goodness'—English homes."

Sprung from such men and inheriting such traditions, our homes ought to be considerably in advance of other nations. Are they so? In the imposing mansion in which I write, occupying a conspicuous position in one of the most fashionable inland watering-places in England, a stagnant atmosphere is but too perceptible in the corridors, while a vigorous use of open windows barely suffices to make the public rooms habitable. The picture of our English homes sketched by the Countess de Viesca in a paper read at the Congress at Leicester, and published in the Transactions for 1885-6, shows ample evidence of the pressing need that exists for further improvement in almost every detail of domestic sanitation.

But before discussing these points it may be well to notice briefly, the standard by which progress in sanitation may be best measured. The present practice is to depend almost entirely upon statistics of mortality. A death in a community is a fact which is not open to question, and the aggregate number of deaths in a given population is, undoubtedly, a reliable standard of comparison between one given section of the community and another. The population of Portsmouth, for example, in 1890 was 160,128; the births per 1000 were 34.3 and the deaths 18.9, a ratio which compares favourably with the 31 large towns at home, with which it is usually contrasted. If this mortality was attributable to natural causes, uniform in their operation in all communities, a reliable comparison could obviously be made; but, to quote Dr. Guthrie, "Few people die a natural death. Some are murdered, but the greater part, who have arrived at years of discretion, commit suicide of a sort, through the neglect of the ordinary rules of health, or the injudicious use of meat, drink, or medicine." The "discretion" possessed by those who commit suicide through self-indulgence is not, perhaps, an important factor in the calculation, still the Rev. Doctor's remark must not be overlooked when estimating the extent to which mortality is attributable to preventible causes, whether these be moral or physical. True, the *moral* microbe has not yet been differentiated by the scientist, although the medical practitioner will be the first to admit, with Dr. Guthrie, that the specific microbe would be, in the great majority of cases, harmless, were it not aided and abetted in its onslaught, by some indiscretion on the part of the sufferer.

Again, statistics as usually available are too generalized, to be a safe guide in judging of the sanitary condition of particular localities or dwellings. Groups of residential premises of particular types, occupied by families of equal, or nearly equal social status, furnish a fair standard of comparison; but in a large town like Portsmouth or London, statistics of general

mortality must be carefully sifted and arranged by districts, and even by streets, lanes, and alleys, in order to arrive at safe conclusions. The death-rate among women and children, if compiled by districts or blocks of residential buildings of a common type, and differentiated by ages of occupants, would be less open to objection; but the nature and extent of the sickness among these two classes would be still more reliable, because they are more continuously resident, and because children in particular are more susceptible of injury to health from insanitary surroundings. Sir James Crichton Browne has recently published some valuable observations on the differences of development between the two sexes, and on the injurious effects of over-pressure in schools, but I do not think he has made due allowance for the wide difference in the conditions under which the sexes spend the greater part of their time. Men are undoubtedly as a class much more in the open air than women, and to this is probably attributable the lessened appetites and weaker assimilative powers, which result in a weaker development of the latter.

But the differences between the physical development of rural and urban populations is the best test of surrounding health conditions, and up to the present the advantages are clearly in favour of the country. In both, however, there is evidence of progressive improvement, and this may be approximately estimated by the structural adaptations to be found in residential dwellings of different dates and epochs.

An attentive observer of what is passing around him will have noticed the rapidity with which structural changes in those hives of human industry—large towns—take place. "God made the country, but man made the town," has become a proverb among us, and like man himself, largely modified as he has been by his own action since he left the hand of his Maker, his handiwork, as presented by the earlier editions of our great cities, is by no means perfect. But we are improving. Streets and alleys in our more populous centres, which were the residences of the more cultured classes a century ago, have in many instances, passed into the hands of the speculative rack-renter, to be let out as tenements; while, in not a few, whole districts of such tenements are daily swept away, either because they are no longer habitable, or because they are unsuited to the growing needs of an ever-advancing civilization. But taking our homes as they are, and applying to them the hygienic rules which we know to be sound, and are easily accessible to all, what must be, in too many instances, our verdict? Clearly there is still room for improvement in the best of them.

Assuming that there is nothing structurally objectionable in a house, and that it is considered by the sanitary authorities

habitable, what are the conditions which must be observed if the inhabitants are to have a reasonable prospect of enjoying good health? First, as to externals. The house itself must stand on a healthy site. This consideration is no doubt present to the mind of anyone seeking a mansion, or a house of even much less pretensions, but it is too often altogether overlooked by the cottager; and anyone who takes note of the present system of disposing of so-called rubbish in and about great cities, and the rapidity with which ground made out of what was but yesterday a mere swamp, is covered by cottages, too often constructed without those safeguards devised to protect the inmates from damp and ground air, must see the danger which lurks beneath.

A free supply of fresh pure air is a requisite of first importance, and this cannot be secured unless the surroundings over which it must pass are also pure. Air polluted by emanations from decaying organic matter, is not only offensive to our senses, but also injurious to our health, because deprived of much of its oxygen, and in consequence rendered to a corresponding extent incapable of accomplishing those blood changes which are constantly taking place in the lungs, and without which health could not be preserved. The existence of open spaces in front and rear of every inhabited house, from which a free supply of fresh air can be drawn for purposes of ventilation, is therefore essential. Unfortunately the atmosphere of all large towns contains elements of impurity, such as products of combustion and decay of organic matter, which the dwellers in our cities appear to regard as necessary evils; and till better educated, and more thoroughly alive to the deleterious effects upon the public health of such products, the smoke abatement and refuse removal movements ought to receive every encouragement and support.

There is another aspect in which this subject must be viewed. Sunlight is a most important and essential element in regard to the salubrity, as well as the suitability of a house for residential purposes. No apartment is really fit for human habitation which is not freely traversed by sunlight. If by the direct rays of the sun so much the better. Those of you who have studied the influence of light on the development of colour in the vegetable, and indeed in the animal world also, need not be told that healthy growth is not attainable without a reasonable supply of that vivifying influence. This requisite cannot be secured without free access through open spaces—a necessary condition apt to be too little regarded by builders, in their efforts to house an undue proportion of individuals on a given space. This subject of surface overcrowding, and undue

elevation of buildings in close proximity to each other, has been so ably treated by Dr. L. Parkes, in a paper published in the twelfth volume of our Transactions recently issued, that I need not follow it further here. The smoke-laden atmosphere of such towns as London, Manchester, and the larger manufacturing centres throughout the kingdom, is in itself such an impenetrable barrier to the free ingress of the sun's rays to our dwellings, throughout the greater part of the year, that we cannot afford to add the avoidable elements of overshadowing of buildings, and overcrowding of surface spaces.

A good water supply is an obvious necessity for every dwelling. The measure of our needs in this particular, and the best methods of providing for them, have been often discussed, but the subject is by no means exhausted. The rapid increase of town populations, and the consequent ever augmenting demands for a supply of this most essential requisite, have forced into prominence the question of water conservancy. What an important part this so-called element plays in the economy of nature, as well as in the life of man! It covers a large part of the earth's surface, and is universally diffused throughout the atmosphere; it drapes the heavens with curtains of the most gorgeous colours dyed in the rosy tints of morn, or in evening's golden hue; and it fills the floating reservoirs of the sky, to descend, when burst by lightning or breaking by their own weight, in refreshing showers upon the thirsty ground. And when it has so descended and refreshed the earth, it forms itself into rivulets and brooks, which, swelling as they proceed, bring health and gladness to our villages and towns scattered along their banks. It may, indeed, be truly added, in Dr. Guthrie's own words, "the circulation of this fluid is to the world what that of the blood is to the body, or grace to the soul. It is its life. Withdraw it, and all that lives would expire; forests, fields, beasts, man himself would die. This world would become one vast grave; for water constitutes as much the life as the beauty of the landscape; and it is true, both in a spiritual and in an earthly sense, that the world lives because heaven weeps over it." So far the picture is most attractive, but let man, in his thirst for gain, touch it, and see what it becomes—the common sewer, the filthy drain of the great city. In its infancy and purity, the rivulet swelling into the river brings nothing but loveliness and blessings, to be turned, as it leaves us, into a fruitful source of suffering, disease, and death. But it is ever thus. The willing servant becomes the selfish tyrant's slave. Water is of necessity forced to find its lowest level, and, as it passes on its downward course, it is seized upon by the man it

has just served, to carry hence the filth which pollutes it, and the germs of disease, which are thus readily spread through the communities among whom it flows to its home in the great sea. At times, when we are threatened by a visitation of some pestilence, we are stirred with apprehension, and, awaking to our danger, cry out for a remedy. Royal Commissioners enquire and report, the evil is acknowledged, and remedies are suggested; but still the pollution of our water supply goes on, and a prime necessary of life is rendered unfit alike for man and beast.

Is it not strange that, in these times of political excitement, when men are energized by the merest fads, the greatest domestic question of the age should cause so little stir. Man in his ignorance and selfishness abuses that which God has given in purity and abundance, in order that all may be able to drink freely without money and without price. When it is no longer fit for its purpose and his needs, his neighbour seizes and re-issues to him, purified it may be by some cunningly-devised system of filtration, that which was his birthright, but for which he must now pay; and so the circle widens till at the present moment our large towns have to procure their water supply from great distances and at enormous cost. No doubt the Water Companies are paying concerns, and in the main serve those who can pay satisfactorily. But visit the slums of our great cities, and look at the state of the poor who cannot so pay, and you will be able to realise what serious consequences result from an inadequate supply of reasonably pure water for drinking, to say nothing of other needful purposes.

Thanks to the liberality and Christian charity of some among us, drinking fountains for man and beast are to be seen in yearly increasing numbers along our great thoroughfares, and in places where the people are apt to congregate; but this is not enough; every street and alley, as well as every inhabited house, should have a continuous water supply as one of the necessary requisites to be provided by the owner, and his power to recover rent should be made conditional on the efficiency and sufficiency of this supply. Add to this an efficient water conservancy, with powers adequate to prevent the pollution of our rivers, and to enforce an effective scavenging, and suitable disposal of all sewage and other filth now permitted to drain into our water-courses, or foul our village wells, and there need be no fear of a water famine in this country, even with a further great increase of population.

Having thus briefly reviewed the surroundings, let us glance at the interior of a healthy home. The first point for consideration is space, and this must be regarded with reference chiefly

to the numbers to be accommodated, the arrangements for ventilating, lighting, and heating each separate apartment, and the subsidiary but essential domestic and sanitary appliances necessary for health and comfort. I cannot do better than refer you for detailed information on this subject to the admirable lecture on "Ventilation and Measurement of Cubic Space," by Sir Douglas Galton, published in Vol. XII. of the Transactions of The Sanitary Institute. The points in that lecture which I desire to emphasize are: the cubic space per individual, and the provisions for changing the air in that space by a continuous and adequate supply from without.

The term "*cubic foot*" as a unit of space has often led to misapprehension, and occasionally to grave errors in calculating the number of individuals who can be conveniently and safely accommodated in a given building. Take for example an apartment ten feet square and ten feet high, and you have a cube of ten feet containing one thousand cubic feet of air. Such an apartment would suffice for a single individual so far as space is concerned; but suppose the apartment was ten feet long by four feet wide and twenty-five feet high, you would have precisely the same number of cubic feet of air, but how different the nature of the accommodation. In the cube of ten feet a man would live and breathe comfortably for say an hour, in the other space, containing the same number of cubic feet, he would feel the suffocating effects of the impure air in a very few minutes. The differences in the two cases depend upon the slowness with which the lower stratum of air, saturated with carbonic acid gas and other products of respiration, diffuses itself through the higher column, as contrasted with the cube of ten feet. A practical illustration of this occurred to me shortly after the mutiny in India, when, in allotting accommodation for my corps in new quarters, a building containing 35,000 cubic feet of space was handed over as a quarter for thirty-five men. A glance at the room satisfied me that the floor space did not afford accommodation for so many without excessive crowding, and on expressing my doubts the General commanding, directed the Quartermaster-General to show how the cots for thirty-five men could be placed; but on making the attempt he was unable to find space for more than twenty-five.

It is, of course, an advantage to have, in every inhabited apartment, an air space above the cube in which the occupants of the room move and breathe; but this must be regarded in the light of a reserve, and must not be secured at the expense of the floor space, which is still more essential. The principle involved is of great importance in estimating the numbers to be

allotted to bedrooms, and dormitories in public schools, and other buildings where numbers are accommodated in each apartment. If it be made a *sine quid non* that every individual is to have a separate bed, and every bed is to stand in the centre of a cube, the contents of which shall not be less than a given number of cubic feet—say 1,000,—and if such a room be ventilated so as to change the air in the whole compartment at least once in the hour, all that can be regarded as essential will have been secured.

In dealing with the ventilation of all apartments, and especially with day-rooms and dormitories, care must be taken so to arrange the inlets for fresh, and exits for foul air, that so-called draughts are not produced. This is not difficult in well-proportioned rooms; but in many instances draughts, of which complaints are made, are attributable to other causes than the ingress of fresh air. The chief of these, and the only one of any importance, is the extent of outer wall space filled with glass. In summer, when a common temperature obtains on both sides of the glass, these draughts are not felt, but in winter when the external air is at a low temperature, while the room is heated to a temperature many degrees higher, the escape of heat through the glass causes the air in contact with it to become heavier, and thus to sink to the floor, thereby creating a current in the air of the room, which is kept up by the fire or other source of heat. This current, moving from the window along the floor of the room, to replace the warmer air which rises when heated, is often so strong as to cause discomfort to invalids, and even to persons in health, who, not knowing the true reason, order every inlet for fresh air to be closed to their own eventual injury. A curtain or blind drawn over the glass is an effectual check to such a draught; but in the day time when light is needed this is not practicable, and the only radical cure for such draughts is the ventilation of the room by fresh air warmed before admission.

These draughts are more common in churches than perhaps anywhere else, and are as often caused by cold or damp walls as by the glass windows. The remedy in this case is obvious, though it is too much neglected. All such buildings should be kept dry, and warmed so as to heat the wall surface to the ordinary temperature which it is desired to keep up. If this is done by passing a sufficient current of dry and warm fresh air through the building, the congregation will find the air pure, and the place free from draughts; but if, as is sometimes the case, the stagnant air which has been shut up in the building since it was last used, is merely warmed by hot-water pipes passing through it, the atmosphere of the place will be both close and soporific.

In the absence of proper ventilation such rooms as are occupied, and necessarily warmed, require a constant supply of air from without, or if not so supplied, from the halls and passages within, to replace the air consumed by the fire; and this finds access through chinks round doors and windows, and even through the walls and ceilings. The sources of supply once detected, are apt to be regarded as offenders by persons susceptible of cold, and not unfrequently the consequences are troublesome. An old gentleman of my acquaintance, who was a sufferer from rheumatic gout, so dreaded all such draughts that he surrounded his easy chair with a screen, and closed as completely as he could every aperture through which air could gain access to his room. The fire naturally resented this, and, reversing the order of things, drew its supply down the chimney, and as a consequence blew the smoke in gusts into the room. The sweep was sent for, with partial relief. A cowl was tried, and proved a failure. Eventually an architect was consulted, who, recognising the cause, but knowing the peculiar views of my friend on the subject of ventilation, did not care to explain. Finding the room unoccupied he slipped behind a curtain and knocked a pane of glass out of the window. The effect was of course all that could be desired, till unfortunately the broken pane was discovered and repaired, when of course matters were restored to their original condition, and the chimney smoked as before. The practical lesson to be deduced from all this is to have no more glass in a room than is necessary for the free admission of the requisite light, and so to arrange for ventilation that the whole air in the room will be periodically replaced by fresh air from without, draughts being obviated in so far as the windows are at fault, by an arrangement of curtains or judiciously placed screens. In very cold climates it is not unusual to make the windows double, and this is occasionally done, even in England, in rooms in which an equable temperature is desired; but, as already suggested, all ordinary needs may be adequately provided for by a judicious arrangement of inlets, and properly adjusted blinds and curtains. The fact that draughts, often attended with much discomfort, can be so produced, should, however, receive more attention from architects than it does. It is only necessary to glance at the so-called villa residences, erected for the artisan and labouring classes, in the suburbs of our large towns, to see the undue proportion of glass which forms a part of the outer walls of those often very flimsy structures. A bow window is no doubt a desirable addition to a room of limited proportions, and in the summer it is much appreciated on account of the increased view thus secured; but in winter it is often a cause of much discomfort,

even when well constructed and furnished with shutters, which is not always the case in such cottages.

When such rooms are lighted with gas, the need for an ample supply of fresh air, and for the free escape of all products of combustion, is still greater. But this is a sanitary requisite which is not confined to the cottager. In many very good houses of the middle and upper classes it is a common grievance, and a source of danger to health not guarded against in the original construction of the house, and is therefore submitted to, rather than incur the expense necessary to remedy the evil. Fortunately, there is a near prospect of relief, for those who can afford it, in the electric light, but this will have to undergo further developments before it can be made generally applicable to domestic purposes at a reasonable cost. Meantime we have only the alternative of candles, or oil lamps, which some people regard as an effectual remedy. This is not so, however, except in so far as the lessened volume of combustion, with which those who use candles or lamps are satisfied, lessens to a corresponding extent the fouling of the air in the room. Free ventilation, and the removal of products of combustion, are as necessary in this case as when gas is used.

There are other points in domestic arrangements regarding which a few words may not be out of place here. The housing of the middle and lower classes in large towns has been in the past, and still is largely in the hands of speculative builders, who hope for a profitable return of capital so invested. Of such buildings it may be said, without attributing any improper motive to the builder, the cheapness of material, economy in their use, and on the class and quality of the labour expended on their construction, are ever present elements in the builder's estimate of cost. It is presumably to such considerations that leaking roofs, walls pervious alike to air and moisture, ill-fitting doors and windows, and badly jointed floors, are not uncommon defects in town houses rented at sums ranging from £100 to £20 annually. These defects must be remedied by the tenant as best he can, hence his resort to carpeting, curtains, wall papers, &c. These appliances have come down to us middle class people as luxuries, the more wealthy classes above us having wisely substituted impervious painted surfaces for paper, and solidly constructed, air-tight, and polished floors, for gaping boards covered with felt and carpeting. No doubt in the best houses, costly carpets, and rugs of elegant patterns and exquisite workmanship are still to be found strewn about the rooms, chiefly on the lines of traffic; but they are usually limited to such localities, the object being to deaden sound rather than to secure warmth and comfort, and they are in every case easily

removed for the purpose of dusting. From a sanitary point of view carpets as at present used are a questionable advantage, and the farther down the social scale their use extends, the less desirable they become. A limited experience of "spring cleanings" should suffice to make this obvious; but if we must have carpets, let them be limited in extent and so laid as to admit of their easy and frequent removal for dusting. A similar principle should regulate our use of curtains, lest they too become the happy hunting ground of the hostile microbe. Of furniture in general it may be said the safest limit is the utilitarian one. Ornamental additions in public day rooms may be tolerated, but in bedrooms the more Spartan the taste the better.

The man-made town is so irremediably defective in a hygienic sense that we turn from it to the country with a feeling of relief, and in the hope that here at least the members of those nomadic races, whom we claim as ancestors, may have left us more perfect specimens of what an English home ought to be. In this hope we are not disappointed. In many instances, no doubt, English country houses have been found wanting in some important sanitary particulars, attributable to the increasing luxuriousness of the age, and to the introduction of modern sanitary appliances into old buildings not originally designed for their reception; but in the more modern structures such oversights have been fairly remedied; and till the time comes when every mansion will include a sanitary pavilion, in which will be found all that is needful or desirable in this direction, we may rest satisfied if the drainage is reasonably effective.

With regard to the farmstead and the labourer's cottage, however, there is much need for improvement, mainly in their surroundings, and in the accommodation for the necessary farm stock and domestic animals. The rapid strides which have been made in the cultivation of sanitary science during the last half century, give good promise that within a comparatively short period the housing of farm stock and domestic animals of every class will be provided for on sound sanitary principles. That this is not yet realized is but too obvious, but the commercial interests involved will soon force forward the needful improvements.

At present the tendencies of all classes, who have to work for their living, seem to be to move into the towns, where higher incomes and social advantages are within reach; and it is only when repeated disappointments, terminating but too often in ruin and the poor-house, have opened their eyes, that the agricultural labourer and others so attracted recognize the mistake they have made. The causes of this are well

known, but the remedies are not so clear. A movement in the right direction has been recently made by Parliament in the Public Health and Allotments Acts, but the remedy is doomed to failure in so far as the allotments provided are not within easy reach of the cottager. What is really required is a plot of ground round every agricultural labourer's and artizan's cottage, sufficient to enable him to utilize profitably his idle hours and broken time, in the cultivation of garden produce for the use of his family. Such an arrangement would be a real boon, and would enable him to provide suitable accommodation for his pig, his hens, and his pigeons; turning to useful account kitchen refuse, and finding a convenient soil in which to bury all decaying organic matters and all so-called filth, to the relief and comfort of the cottagers, whose health will be thus protected, and to the enrichment of the garden soil, where all such matters can be turned to profitable purpose. Here too can be erected without cost the "Gehenna" for the cremation of all organic tissues, house dust, and other refuse, the sure harbingers of ever-present dangers to health; and the earth closet from which waste products can be at once passed to the soil.

But when will these changes come? Not till our great landed proprietors see the folly of letting land only under conditions which make agricultural pursuits unremunerative. "General" Booth's scheme for the regeneration and salvation of the "submerged tenth" has this one great advantage over most other efforts of this class, in that he attempts to replace the unemployed on the soil under conditions which promise the honest and industrious cultivator health, food, and clothing, with a reasonable prospect of a useful life. But why not begin at the other end of the problem, and deal with the agricultural labourer before he leaves the land, to become a town loafer suitable only for Salvation Army purposes? The city refuges with their workshop accompaniments, and farm colonies at home and abroad, are costly curative measures, intended no doubt to relieve suffering and thus to meet a pressing need. One hundred thousand pounds for their establishment, and thirty thousand a year for their working, but how much for the prevention of the evils which they are supposed to cure? These measures contemplate the redemption of poor Hodge and others who have wandered from their cottage homes in the country, and tumbled into a slum in the city, where, having lost money, hope, and character, they pass through the "*public*" to the prison, at the door of which they are fished out of the mire, and received into the refuge, where their regeneration begins, and from whence they may eventually hope to regain a cottage on some farm, possibly their own. All honour to the philan-

thropist who contemplates such a redemption, and works earnestly for its realization. But surely this is swimming in a circle which had better be broken! In such a case prevention would obviously be better than cure, and cheaper also, inasmuch as the cure must be problematical only, so long as agricultural pursuits do not pay. Better, as already suggested, begin at the other end of the problem, and try to keep the people on the land, rather than waste time and money in restoring them to it after social and financial shipwreck.

Some years ago I called attention to the pressing need for a land settlement, which would give to agriculture in this country the fair play it so much needs, to enable it to compete successfully with other food-producing countries, and thus cover these fair islands with a physically vigorous and contented population, which is after all the life of a nation. No doubt political economists say that this is impracticable, and that we must look to other regions having a better climate and a richer soil for our food products, securing an abundant supply by an open market. But is it true that a better land settlement would not enable the agriculturalist to compete successfully with the foreign food-producer in our own markets? As to quantity he may not be able to do so, but as to quality the question has yet to be solved. The physical qualities of both man and beast are more closely associated with the soil from which they draw their subsistence, and the climate in which they are reared, than many are disposed to admit. At all events the country is rapidly passing out of cultivation, and the people are flocking into the towns to swell still further the ranks of the unemployed. Mr. Palmer, an English tenant farmer residing near Towcester, evidently considers this state of affairs remediable; for in writing to me on this subject, and after enumerating the causes which were throwing land out of cultivation, the more important of which were the restrictive terms imposed by the landlord, and the rapidly increasing cost of labour, he adds: "Why do not the papers advocate such fiscal reforms, freedom of cultivation, and security of tenure, as would attract capital to the soil? Let it be made profitable to cultivate, and waste lands will soon be brought under cultivation, and the producing capacity of all other lands increased; this would mean work for hundreds of thousands of workmen now unemployed. It would further mean a great wealth of home-produced food for our nation." There is also a consideration of vast national importance lying behind this which ought not to be overlooked. Our highest naval and military authorities place in the front of all other reasons, for maintaining in overwhelming force our first line of defence, the fact that if our ports were closed, and

our food supply from abroad cut off, a few weeks would suffice to starve the nation into surrender. Surely this argument should induce the people not to neglect a cheap and effective means of augmenting their resources, by an increased home supply of food, while spending lavishly on the defences necessary to keep their ports open and coasts clear.

And now let me add a few words regarding personal hygiene. When all that is possible in the way of sanitary surroundings has been secured, there is still much which must devolve upon the individual who desires to enjoy to the full a vigorous, healthy existence. "Hygiene," says Parkes, "is the art of preserving health; that is, of obtaining the most perfect action of body and mind during as long a period as is consistent with the laws of life." Canon Knox-Little carries us a little farther by pointing out, on the authority of the Church and the Bible, "that the individual life is soul *and* body, and that we can only neglect either at our peril. Close and wonderful is the union between the two; terrible is the divorce at death; certain is the meeting again in eternity; and our Lord is emphatically called in Scripture 'the Saviour of the body.'" If this be true—and I, at least, do not doubt it—Christianity is only doing half its duty when it organizes missions for the salvation of men's souls, while it neglects the equally obvious duty of saving their bodies. Without following further at present the theological aspect of the question, it may be pertinent to recal the old Latin adage, *Mens sana in corpore sano*, as the true definition of the conditions to be realized. A recent writer of distinction has attempted to carry natural law into the spiritual world; may not the sanitarian with even greater propriety carry the moral law into the physical world? In other words, are we not fully justified in maintaining, that perfect health of body and mind require perfect purity of life and conduct, as well as of all the physical essentials which are, in a physiological sense, necessary to the well-being of the individual. In these days of scientific research men are apt to forget this, and while hunting for the physical cause, assumed to exist in every case, to overlook those conditions, the presence of which give direction and force to its action. A vigorous, healthy frame will resist the hostile microbe, or the pestilent malaria, which would prostrate at once the sickly debauchee, whose constitution had been weakened by self-indulgence.

The first essential towards the raising of a physically well-developed individual is a healthy parentage, but in this free country a man is free to marry regardless of the consequences such a step may entail on his children. If a man desires to serve the Queen in the Army, Navy, or Civil Service, a certifi-

cate of good health is a necessary qualification. If he wish to insure his life he must, in addition to such a certificate, produce evidence of freedom from hereditary predisposition to disease, but in the case of marriage there is no such restriction. The consequences are obvious. Indiscreet unions between individuals in many cases so unsound in health, and so shattered in constitution, that the children, if any, are doomed from their birth to a life of suffering more or less acute, and possibly also to a premature death, are common occurrences. The prevalence of consumption and other forms of so-called hereditary disease, both mental and physical, furnishes familiar illustrations of this in the experience of everyone. But putting aside all such instances, and assuming that the great mass of children born into the world are free from hereditary disease, how can the enormous mortality which occurs among children during the first years of their existence be accounted for? Doubtless much of this is attributable to ignorance, on the part of mothers, as to the best method of rearing children; not a little also to vicious habits and cruel neglect; but a still larger proportion of the young fall victims to so-called infantile diseases, which would I hold be comparatively harmless, but for the insanitary surroundings to which the great mass of the people, both in town and country, are unnecessarily exposed.

Some of these have been already pointed out. Others, such as unsuitable or insufficient food and clothing, are well understood, but of the aggregate I would only instance two. The first, and most easily remedied, is the growing neglect of mothers to nurse their own children. To this cause is largely attributable the mortality among infants under one year; while injudicious feeding must be regarded as an ever-present factor in the imperfect development and premature decay of large numbers of the human race. Another point on which I wish to lay emphasis is, not so much the injudicious selection of articles suitable as food, as the impurity of the articles so selected. This is especially the case with milk, on which the young are so dependent. The penalties now inflicted for such adulterations have done much to check the practice, but the scale of prices at which milk can be purchased is conclusive evidence of the fact that, to the poor at least, the article sold must have been largely diluted. Were it always certain that the water used for this purpose is pure the consequences would be of less importance, but in too many instances this is not the case; and, in addition to the fraud perpetrated on the purchaser, the consumer is also the sufferer. The history of many outbreaks of enteric fever, which have been traced to infected milk, adulterated with water in which the germs of

this disease abounded, is conclusive proof of this. No doubt the law provides a remedy for this and other similar offences, but the machinery for enforcing it is defective.

When the food is good of its kind the methods of preparation are often faulty. Instruction in domestic economy, and in cooking, is now given in some schools and encouraged by several voluntary societies, but the want is greatly in excess of the supply, and, until cooking is generally taught in all girls' schools, we can hardly look for much improvement. There is at present much wasteful extravagance in the methods of collecting, storing, and preparing food for all classes, which would under a better system meet the cost involved in the training. The initial difficulty appears to be the disposal of the cooked food, were cooking classes to be organized on a large scale; but if the artizan and working classes were regularly supplied with suitable meals at prices within their reach, they would gladly resort to schools of cookery for all they require. Children at school might be similarly provided for, and the mothers, thus relieved of the trouble and waste of time in marketing and cooking, would be free to devote their energies to other pursuits. Possibly it may be said that this scheme, if followed to its logical conclusion, would break up the poor man's home, and leave him without those domestic comforts which add so largely to the joys of life. The scheme need not have any such consequences. All it need aim at is the profitable consumption of articles cooked at the schools of cookery. There are many instances in which young men and women have no convenient homes to which they can resort for their meals, when employed continuously in positions demanding all their time; to such, a restaurant, where cheap meals suitable to their needs could be readily procured, would be a great boon, while many married couples would find profitable employment if only the preparation of that midday meal could be provided for. In large manufacturing centres the scheme would, I have no doubt, work well and profitably, and the system once developed would soon become general, and meet a much-felt need. The morning and evening meals, consisting as they usually do of easily prepared articles of food, might still be enjoyed by the family at home, while the dinner of all might be obtained at the nearest school of cookery.

The London School Board have already done much to improve the training of the young, both intellectually and physically, but the most important advance which has yet been made in this direction seems to me to be the establishment of classes for teaching the girls cooking. Unfortunately the pupils may be withdrawn from school before they have arrived at an age

most suitable for such training, but any knowledge, however elementary, and any practice in cooking, however limited, must be useful to them in after life. Meantime let us hope that the present elementary classes for cooking will soon be supplemented by more advanced classes, organized and equipped for the fuller instruction and training of such girls as are suitable, and intend to make cooking their profession. South Kensington and other Schools of Cookery are doing excellent work in this direction, but they do not meet the needs of the great mass of middle-class people, who require, and are able to give liberal wages to, a good plain cook, but cannot afford to pay a high salary, and at the same time provide a servant to wait upon the cook.

There is another class of practical instruction for girls which the London School Board have introduced, and for which they deserve much credit. In my address to the Congress at Brighton, two years ago, I alluded to the pressing need for reform in the laundry system—or rather want of system—in this country. For this the School Board is now endeavouring to provide a remedy, not without a promising measure of success.

Ample provision should be made for the physical and intellectual training of the young of both sexes, and all classes; but as has been already hinted, the perfect man cannot be secured without that continuous moral and social training which has its highest expression in perfect self-control and self-respect.

I am aware that many consider these latter qualities lie outside the sphere of the sanitarian, but I do not agree with this view; the salvation of the whole man is the problem to be solved, and if his body is to be kept in health and vigour he must cultivate those qualities which enable him to exercise moral, as well as physical control over all those appetites and pursuits which hurt the body or impair the mind. The training of the young is not all that it should be even in these days of progress. The race is for pre-eminence in something, without much consideration as to the ultimate result. The range of culture offered to pupils at our schools, of whatever class or sex they may consist, is greatly in excess of what many—I might almost say any—children can master. As a result the mentally strong gain pre-eminence in mathematics or some other cult, the physically well-developed shine in the cricket field, and all the others are dragged along at the chariot wheels of these two classes. Too little care seems to be taken to sort and classify and to train according to capacity, taking care to nourish and foster the weaker faculties, whether these be mental or physical. No doubt much of this is due to competition, and till a system can be devised which is less open to objection the weaker must go to the wall. But the system

is a bad one, and on it must rest some of the responsibility for the failures in life out of which our criminals, loafers, lunatics and cripples are manufactured.

But why dwell upon such matters? Life is to many hardly a blessing, why save it? Physical development is a possession of which a man may be proud, and which he may turn to profitable account, but after all it is a drug in the market. As for the halt, the maimed and the blind, the sick, the poor and needy, these seem almost a necessary part of a high civilization, and must be endured. Possibly so, but look at the cost. A tenth part of the money now spent in voluntary and benevolent efforts to put right that which is admittedly wrong would, if judiciously expended in the enforcement of sanitary requirements, do more to lessen sickness and suffering, and to rescue from an untimely grave the bread-winners on whom the happiness and comfort of so many homes depend, than can be realized by all the agencies of rescue and regeneration put together.

It would also sweep from our midst those insanitary slums in which the most degraded of the community crowd together, offering a congenial soil in which contagious disease is fostered, and from which it spreads among the people.

The housing of the well-to-do working class is in a fair way of being satisfactorily provided for, but nothing has yet been done to provide suitable accommodation for the poorest class of the people not actually paupers. Many of them are infinitely worse off than the regular inmates of the workhouse; but some element of self-respect, or pride it may be, constrains them to endure hardship and privation, even to the verge of starvation, rather than take that last, and to them irretrievable, step of going to the workhouse. There is much need for active interference in favour of this class, and the best method of aiding them appears to be also the cheapest. House them in homes in which they will be provided with those prime necessities, pure air, good water, light, and shelter, at rates which they can pay, while leaving a sufficient margin for food and clothing. The loafer should not be tolerated under any circumstances; his gregarious and filthy habits, and his hopeless laziness and moral degradation render his consignment to the workhouse a necessity. I do not include under this head the casual wanderer out of employ, for whom other arrangements should be made; or the blind and otherwise maimed, who make a profitable display of their misfortunes; the latter should of course be compulsorily consigned to asylums supported by the State. After all that can be done has been realized, benevolence will still have a wide field for its exercise.

LENGTH OF DAYS.

LECTURE TO THE WORKING CLASSES,

BY

PROF. W. H. CORFIELD, M.A., M.D.(Oxon).

ABSTRACT.

HIS WORSHIP THE MAYOR OF PORTSMOUTH, in introducing the lecturer, said he was exceedingly pleased to see so many of his fellow-townsmen in attendance. A few days since, in the name of the inhabitants of the borough, he extended a hearty welcome to the members of the Congress, and he ventured to say that they fully approved of his action in that matter.

The dissemination of knowledge concerning the public health was a noble work, and it had been suggested that in Portsmouth they might make arrangements for periodical lectures on hygiene. He would be most happy to join any number of gentlemen interested in the matter in an effort to establish such a scheme. The meetings might be held in the Grand Jury-room, and he felt confident that his successor also would permit it to be used for that purpose.

Prof. CORFIELD, at the outset of his address, remarked upon the importance of the Sanitary Congress, which, he said, was brought together with one object—the prolongation of human life by the study of the various means by which health might be preserved and diseases prevented.

Was there any reason why they should not prolong life indefinitely? Why, when a person had grown to perfection, and by the food he consumed continuously replaced the losses in his body brought about by the use of its various parts, should he not go on for ever? The answer to that question was not an easy one. The reason was this: together with the process called life, there was always going on a process of hardening of the tissues of the body. That process commenced at the beginning of life, and went on until the individual was perfect; until the hard parts of the body were as hard as they should be, and the soft parts were as soft as they should be. It did not

stop there, however, and as time went on, the tissues of the skin became less elastic, the great arteries became hard and stiff, so that they could not send the blood through the body as they had done before, the nerves got hard, and the sensations became impaired. Even supposing the individual contracted no disease, the process went on until the hardening of the tissues of the lungs became such that respiration was stopped, or the hardening of the arteries offered such resistance to the flow of blood that the circulation could no longer go on, and the man died a natural death.

Hygiene, which was an art as well as a science, had been practised from the earliest times. They might even in these days learn most important lessons from the works of scientists of past centuries, and especially from the works of the Roman engineers, whose aqueducts conveyed a supply of unpolluted water from springs and lakes into their great cities. Some of their drainage works existed to the present day, and carried out the functions for which they were intended at the time of construction.

Although, as a science, hygiene was a thing of yesterday, they had by its aid arrived at great results. They had found out the causes of several of the communicable diseases, and, having discovered the causes, it was obvious that their prospect of preventing them was very much increased.

In commenting upon a few of the most important diseases by which mankind had been afflicted, he described the terrible effects of the Oriental plague, or "black death," which killed one-third of the inhabitants of the old world in one single invasion in the fourteenth century, and, appearing in London in 1665, killed 685,000 inhabitants. There could be no doubt, he said, that that disease had entirely disappeared as places had become more cleanly.

Scurvy was a disease which used to play havoc in the navies and armies of Europe until Captain Cook discovered that it was due to the absence of fresh vegetables, and now it never occurred, except, perhaps, when an expedition went to the polar regions, and rum was served out to the men instead of limejuice.

Typhus, or jail-fever, was formerly a terrible scourge, but it would not spread where there was no overcrowding, and was now rapidly becoming a disease of the past.

As to cholera, there were very few places in this country where sufficient filth existed to cause it to flourish, and it was not blown about by hurricanes, &c., but taken from place to place by people. The only real danger of the spread of the disease in England was the contamination of the water-supply

at its source. The most fertile source of typhoid fever was where the drainage of a house ended in a cesspool, and the well from which the water-supply was drawn was only a few feet away, both being in gravel soil.

All the diseases he had mentioned were nothing as compared with small-pox, of the extent of which in past centuries they could form no conception. It was no longer prevalent, because they had protection against it in vaccination.

Scarlet fever was a disease of which they had heard much and were likely to hear more. At the present moment there were 3,300 cases in the beds of the Metropolitan Hospitals. Little was known about its causes, except that it was readily communicated from one to another, and that quite recently it was found that in some way or other it was connected with cattle. Milk could communicate it to the human system, and as a matter of precaution it was wise to insist that every drop of milk brought into a house should be boiled before it was consumed.

Diphtheria, which was akin to scarlet fever, and went with it, had unfortunately taken hold of large towns, including London, and was increasing rapidly. A great deal remained to be discovered respecting that disease also.

Measles and whooping cough were not at present officially classed under the head of dangerous infectious diseases, although the former killed more children than any other sickness, and whooping cough was almost as fatal. Measles and scarlet fever could only be summarily stopped by the closing of the schools, at which they were chiefly spread. They did not spread in the open air to anything like the extent they did in houses or schools.

Epidemic influenza caused great mortality, and damaged a great number of people for the rest of their lives; and in referring to it he suggested whether while they were abolishing the conditions under which certain infectious diseases might exist, they might not by that very means create a condition of things in which other virulent and fatal diseases might flourish. That was certainly an alarming suggestion, but if true they could not help it, and the only course open to them was to continue to fight every disease as it came under their attention.

Passing on to consumption, "the great endemic plague of our climate," he stated that, although it had been shown by Dr. Koch to be caused by a living organism, it was spread by living in damp houses, by overcrowding, and by pursuing occupations in which much dust was produced, and he insisted upon the great importance of cleanliness in the prevention of this as well as of other diseases. Cleanliness had been described as "next to

godliness," but although a friend of his, an athletic divine, had said that it was a "very bad second," he himself maintained that without cleanliness there could not be much godliness.

After a short account of the mischiefs produced by over-indulgence in food and drink, and neglect of bodily exercise, he gave it as his opinion that cleanliness in the widest sense of the term, and moderation in the indulgence of our appetites and a sufficient amount of bodily exercise and of mental work, were the most important factors in the prevention of disease and the prolongation of life.

The mean length of life had been much increased in this country in recent years. We thought nothing now of the old limit of threescore years and ten, as we had so many instances of men living far beyond that period and yet possessed of all their faculties. He had calculated that the mean length of life in London during the last fourteen years had increased from 34½ to over 38½ years, a very important increase for so short a period. He attributed this increase to improved sanitary conditions, and insisted on the importance of sanitary legislation being continually brought up to the point at which public opinion would support it.

LECTURE TO SANITARY OFFICERS.

INAUGURAL ADDRESS,

GIVEN AT

WORCESTER

ON OCTOBER 1st, 1892,

BY

SIR DOUGLAS GALTON, K.C.B., D.C.L., LL.D., F.R.S.

THE Course of Lectures, of which this is the first, has been arranged by the County Council with the object of affording to the Sanitary Inspectors of the County an opportunity for preparing themselves to pass an examination so as to qualify them to obtain a certificate of competency in their duties.

In consequence of my position as Chairman of the Sanitary Committee of the County Council, I have been requested to give the opening Lecture, and I have accepted this proposal, because I thought that I should thereby have the opportunity of placing before the Inspectors a succinct view of the responsibilities which attach to their position, and of the duties which they have to perform.

The laws which regulate the health of the community may be said to date from the accession of Queen Victoria.

It was only at the beginning of the Queen's reign that the registration of births and deaths came into operation, thus affording the necessary data for ascertaining the relative intensity of epidemic diseases, and furnishing a basis for a scientific examination of the causes of the diseases. In 1839 disease was as prevalent in the rural villages as it was in the most filthy and crowded districts and towns; and the Poor Law Commissioners were directed to enquire into and report upon the

condition of the labouring classes. Their report recorded in all parts of the country much prevalent disease and consequent death.

In towns the people were crowded in courts and alleys, and swarmed in cellars, which were neither ventilated nor drained. The dead were buried in overcrowded churches, chapels, and churchyards in the middle of towns. The rural districts were no better. Parochial administration operated to degrade the inhabitants of the labouring class and to check tendencies to improvements. The window tax operated in all houses to shut out sun and air, and to foster darkness, want of ventilation, and consequently dirt. Each house had its cesspit, but in poor districts fecal matter was often allowed to accumulate for years to avoid the expense of emptying.

The provision of pure water and the disposal of water after it had been fouled had scarcely been thought about. The law, however, was not so much in fault. It defined a common nuisance as: "An offence against the public either by doing a thing which tends to the annoyance of all the King's subjects, or by neglecting to do a thing which the common good requires."

But the Commissioners reported that notwithstanding this full definition, and notwithstanding ample legal power through the operation of Courts Leet, almost every town in England found in a low sanitary condition, and every village marked as the abode of fever, presented an example of standing violations of the law and of the infliction of public and common as well as of private injuries; the tenements were overcrowded, the streets replete with injurious nuisances, the air rendered noisome by these and by the smoke from factory chimneys, and the streams of pure water were polluted.

In 1840—41 the first Vaccination law was passed, and in 1853 vaccination was made compulsory. Small-pox had destroyed 30,819 persons in England in 1838. The number who died in 1890 numbered only 15.

The General Board of Health, which has since been merged into the Local Government Board, was founded in 1848, and initiated the system which subsequent Acts of Parliament have supplemented, enabling towns and localities to borrow money from the Government for sanitary works. Further Acts were passed in 1858 and 1861 and in subsequent years, and all their provisions were embodied in the Public Health Act 1875. This was the commencement of one of the most important stages in

the sanitary progress of the nation, because it was the first effort made to deal with the health of the community as a whole.

The office of Inspector of Nuisances had existed for many years under the provisions of various Acts of Parliament. In 1872 the Local Government Board obtained power to issue orders for defining their duties more specifically, and the Act of 1875 summarised the functions and powers of the Sanitary Authorities and of their officers.

The Public Health Act of 1875 brought into one focus the various regulations which had been especially devised in previous years to be a safeguard mainly for urban populations. But in the rural districts the powers of that Act were more limited. Since 1875, however, additional Acts of Parliament have been passed, and increased powers have been conferred on all Sanitary Authorities both Urban and Rural. Amongst these, in addition to the Acts for the prevention of pollution of streams and rivers, I would refer to the following:

1st. Mr. Brown's Water Act 1878, which compels owners of house property in Rural districts to improve the water supply of their property, and to provide a water supply for all new houses and cottages. This Act is not sufficiently attended to in Rural districts.

2nd. The various Acts for improving the dwellings of the labouring classes, which have culminated in the Housing of the Working Classes Act 1890.

3rd. The Acts relating to the Adulteration of Food.

4th. The Acts governing the Notification of Infectious Disease, and especially those giving powers for compelling isolation of persons suffering from infectious disease, and the disinfection of clothing, bedding and rooms; and also those providing accommodation for persons temporarily turned out of their houses for purposes of disinfection.

The formation of County Councils all over the country produced a new departure; for the County Councils, through the appointment of their own Medical Officers of Health, have become a focus of Sanitation in each county, by means of which the Reports of the Medical Officers of Health of Sanitary Districts in the County are yearly collated and brought under review, and thus attention is drawn to any Sanitary shortcomings in the Sanitary districts within the County. Although

the County Council has only limited executive powers in the Local Sanitary Districts, yet, the County Medical Officer, if appointed with judgment, if he is cautious not to interfere unduly, and if he remains independent of private practice, will obtain by degrees a wide influence, and gradually more and more become an adviser of the District Medical Officers of Health as well as of the Sanitary Inspectors, and be consulted in important cases by the Local Sanitary Authorities.

As an instance of the use which Local Sanitary Authorities have already made of the County Medical Officer of Health, I may instance the Notification of Infectious Diseases. In Worcestershire, all the Sanitary districts except three have adopted the Act for Notification of Infectious Diseases, and a record of all cases of infectious disease which occur in these Sanitary districts is sent by the District Medical Officers to the County Medical Officer, weekly; and he tabulates them and issues tabular statement weekly to each District Medical Officer, so that they are all kept aware of the state of infectious disease over the whole county. The County Medical Officer has also been called in to confer with District Medical Officers on various special matters in which Sanitary improvements were wanted, such as cases of polluted water supply, absence of drainage, defective house accommodation for the poorer classes, &c., &c. In regard to these I may mention that it is made especially the duty of the County Council to interfere as to the improvement or removal of insanitary dwellings, or as to the pollution of water, if the Local Authority fails in its duty.

From the analysis made by the County Medical Officer of the annual reports of the District Medical Officers, and from his own reports to the Sanitary Committee of the County Council on enquiries specially made by him, it became apparent that the several districts varied considerably in the conditions of their sanitation. Moreover, these various reports showed to the Sanitary Committee of the County Council, that there was a great want of uniformity in the knowledge and qualifications of the Inspectors themselves, and upon inquiry from the Sanitary Authorities, the Council ascertained that there are no uniform arrangements in the districts for ascertaining that an Inspector on appointment is necessarily conversant with the duties he has to perform. It therefore appeared desirable that some general instruction on these subjects should be offered by The Sanitary Institute.

The Public Health Act for London, passed in 1891, contains a provision affecting Inspectors in the Metropolis which undoubtedly will, on the first opportunity, be made applicable

to the whole of the country. That Act enacts that all Inspectors in the Metropolis that are appointed after 1895, must possess a certificate of competency from some examining body authorised by the Local Government Board.

This provision, when extended to the whole country, will make it incumbent on all Sanitary Inspectors who desire to advance in their profession to obtain certificates of competency. The Sanitary Institute has been appointed by the Local Government Board, under this Act, an examining body to issue such certificates. And the Sanitary Institute has organised a system for the preliminary training of the Inspectors by means of lectures before the examination. The County Council is now offering to those of the Sanitary Inspectors of this County who desire it, the opportunity of obtaining a certificate of efficiency by means of these lectures and examinations. When that has been achieved, and certificates of competency have been obtained by all Sanitary Inspectors, the county will possess qualified Inspectors; and the public will reap great advantage from the employment of competent men, provided the Inspector is encouraged to make use of the knowledge he has acquired.

But there are certain disabilities which attach to the position of Sanitary Inspectors. Periodical house-to-house inspections are essential to the due performance of the duties of an Officer of Health or Inspector of Nuisances, in the neglected portions of his charge. And the duties which devolve on the Sanitary Inspectors, consequent on such inspection, may be of a nature to bring them not only into contact, but also into antagonism, with their employers; and influences are sometimes brought to bear upon them, which render it often a very unpleasant and ungracious duty to put in force the provisions of an Act which, although designed for the public benefit, may be opposed to the personal and private interests of the parishioners, many of whom may be members of the Vestry, Guardians of the Poor, or may sit on Local Boards of Health in the district. It thus follows that the support which the Inspectors have a right to expect from their superior officers, such as Local Surveyors and Medical Officers of Health, is sometimes grudgingly given or absolutely withheld in cases where influential members of the local authority are concerned. Consequently the preventive measures which it is so important to institute prior to the breaking out of epidemic disease, are often postponed till the disease itself has appeared; and the remedial measures are thus resorted to, when too late.

If the public is to have the full benefit from the education of

the Sanitary Inspectors, Sanitary Authorities must not allow consideration for individuals to weigh with them in making orders for the removal of sanitary evils. There is also this: If an Inspector incurs the labour and expense of studying for, and obtaining a certificate stating that he is qualified for his profession, he must expect reasonable remuneration for his work, and reasonable permanency in his situation.

The duties of the Inspectors of Nuisances (now more generally termed Sanitary Inspectors) have been defined by the Local Government Board briefly as follows:—

I. They are to obey the directions of the Sanitary Authority and of the Medical Officer of Health, and they are to attend the Meetings of the Sanitary Authority when required.

II. They are to inspect their Districts systematically, and keep themselves informed of the Sanitary condition of their District; and whenever they receive notice of the existence of a nuisance, or of a breach of bye-laws, or of regulations made by the Sanitary Authority, they are to inspect the locality and report thereon to the Sanitary Authority, as well as upon any noxious or offensive trades established in the District. They have to see that the provisions of the Common Lodging Houses Act are duly carried out. And under the Housing of the Working Classes' Act, they may be called upon to ascertain whether any dwelling-house is in a state so injurious to health as not to be fit for human habitation.

III. They are to report to the Sanitary Authority when the water supply for domestic purposes is either wasted, or polluted, or defective.

IV. They are to inspect slaughter-houses and all shops and markets for the sale of butcher's meat, poultry, fish, fruit, vegetables, corn, bread, flour, or milk; and they are to cause any such articles as may appear to be unfit for food, but which are intended for the food of man, to be dealt with by a Justice of the Peace, subject to the opinion of the Medical Officer of Health.

V. They are to take samples of food and drugs when necessary, and they are to take any further proceedings required under the Sale of Food and Drugs Act.

VI. They are to give immediate notice to the Medical

Officer of Health of the appearance of any contagious, or infectious, or epidemic disease. They are to take necessary measures under the direction of the Medical Officer of Health for preventing the spread of such diseases; and when it appears to them that the intervention of such Officer is necessary, in consequence of the existence of any nuisance injurious to health, or of any over-crowding, or otherwise, they are forthwith to inform the Medical Officer of Health thereof.

VII. They are to be competent to superintend the execution of works for the suppression of nuisances, ordered by the Sanitary Authority, and to see that they have been duly executed.

VIII. They are to keep a record of the sanitary condition of houses in respect of which action has had to be taken under the Public Health Act of 1875, as well as to keep such other systematic records as are required by the Sanitary Authority; and they are to report fully on all matters to the Medical Officer of Health.

You will see by this summary that the Sanitary Inspector is intended to be the eye and right hand of the Medical Officer of Health; and it is only by keeping himself fully informed of the sanitary state of every part of his District, that he can bring to the notice of the Medical Officer all matters injurious to health in the District.

When I have advocated the importance of Sanitary Inspectors possessing a certain amount of technical education, I have often been met with the remark, that all that a Sanitary Inspector requires is common sense. Now common sense is a rare but most useful quality to possess, and combined with experience, common sense will go far to make up for want of special knowledge; but the duties laid on the Sanitary Inspector are wide; and since he has to keep the Medical Officer informed of any shortcomings in sanitation which occur in his District, he must possess special knowledge of the points which he has to observe and upon which he has to report to his chief.

Let us consider for a moment what is the special knowledge which the proper performance of the duties of a Sanitary Inspector involves.

He requires a knowledge of the laws which control Sanitary Administration; he requires a knowledge of the principles which govern sanitation; and he must be conversant with the

methods which have been devised to give effect to those principles. Now this knowledge covers a very large field, and I purpose to explain briefly here what it implies.

I. In the first place, his general education must be such as to enable him to keep accurate records, and make reports, accompanied if necessary with sketches illustrating such reports.

II. He requires an accurate knowledge of the numerous Acts of Parliament which confer his duties upon him, as well as a knowledge of the model bye-laws of the Local Government Board.

III. He must have a knowledge of the conditions which affect the health of dwellings, and must be cognizant of the various questions connected therewith, such as:

(a) Overcrowding; and he must be able to measure and calculate the cubic and floor space in rooms.

(b) He must understand the principles of ventilation, and know simple methods for applying these principles to houses.

(c) He must have a general knowledge of the constructional conditions affecting warmth; that is to say, both in respect of the generation and distribution of heat in the most favourable manner, as well as in respect of the methods of construction which prevent the loss of heat.

(d) He must understand construction as bearing upon light and window space; and the proportion which window space should bear to floor space and cubic space.

(e) He should be conversant with the conditions which foster damp, and with methods for preventing damp and dry rot.

(f) He must have a knowledge of the general conditions required for good drainage; he must be able to apply simple methods for testing drains.

(g) He must be able to advise upon the best forms for sanitary fittings and appliances, and understand how to test them effectually.

This knowledge involves a certain acquaintance with details of building construction, and a knowledge of what constitutes good plumbing.

IV. He must possess some knowledge of the physical characteristics of good drinking water, and of the various ways in which water may be polluted; either in consequence of the position of wells and streams in relation to nuisances, or by other sources of injury, either to the sources of supply of water, or from the retention of water in cisterns and in houses; and he must be acquainted with the means of preventing pollution of water.

V. He should understand the conditions to be observed in the construction and maintenance of dairies, cow-sheds, and slaughter-houses, so as to avoid sanitary dangers.

VI. He should be able to report upon noxious and offensive trades and manufactures, and whether the operations of the trade are carried on under due regulation.

VII. He should understand the best and most efficient method of scavenging, and be able to advise upon the storage and disposal of refuse.

VIII. He is also bound to know the general characteristics of good and bad food (such as meat, fish, milk, vegetables, &c.), as well as to understand the duties assigned to him under the Sale of Food and Drugs Act.

IX. He has, further, to possess a knowledge of the regulations affecting persons suffering from infectious diseases; he must be acquainted with the use and value of disinfectants, and he must be able to apply the various methods of disinfection suited to the circumstances of each case.

This brief statement of the various matters with which the Inspectors must be cognizant if they are to perform their duties efficiently, abundantly shows they must possess a certain amount of technical knowledge, and this is not to be obtained without special training; hence you will easily understand that something more than mere common sense is wanted. No doubt in many of these matters the Sanitary Inspector has at hand the advice and assistance of the Medical Officer of Health; but if he is to be an efficient help to that officer, and if his advice is to

be of value and to carry weight with the householder, he must himself possess a large amount of this technical knowledge, the heads of which I have enumerated.

For instance, in the matter of Sanitary Appliances, Sanitary Inspectors should know the reasons which have led to the adoption of the various appliances for sanitation, because you may sometimes, by advising remedies for one insanitary condition, introduce, through the want of such knowledge, fresh unforeseen causes of disease.

Thus, when some fifty or sixty years ago, the evils of cess-pits in towns were seen to be very great, the proposal was made to turn the privies into water closets, and to send this refuse away in the sewers; but although until then, the sewers had only been constructed in a manner suitable for removing rain water, and had been only allowed to be so used, no one thought at that time whether the actual condition of the sewers was such as to permit of their being efficient carriers of this sort of refuse, nor was any thought given to the probable evils from sewer gas; and many deaths resulted from this ignorance. Indeed I know more than one case where the water closet soil pipe was led into the rain water pipe, which was connected with a water cistern under the house, the contamination of which caused much disease and some deaths. You cannot make a new departure in sanitary progress without much consideration, for each step you make introduces fresh conditions; this of itself is an evidence that it is highly important that the Sanitary Inspector should have sufficient knowledge of the principles of sanitation to enable him to appreciate these new conditions.

At the present time, one of the most important functions of the Sanitary Inspector is with reference to infectious and contagious disease. The Public Health Act of 1875 authorises the Local Sanitary Authority to provide hospitals and places for disinfection of bedding, clothing, &c., as well as ambulance carriages for the conveyance of sick persons. Recent Acts of Parliament enable Sanitary Authorities to require the notification of infectious diseases, and to isolate patients suffering from such diseases, as well as to pay the lodging of persons who must vacate their houses during the disinfection of the house and premises where a case has occurred.

I will give you an instance of the efficiency of isolation, and how that efficiency can be marred by the neglect of necessary precautions. We had a very serious epidemic of small-pox in London, 1884-5. According to the usual course of past

epidemics of small-pox, it should have recurred between 1889 and 1891 or 1892: but every case of small-pox in London, which cannot be isolated effectually in its own dwelling, is removed by ambulance carriages and steamers to ships placed in the lower Thames, and up to the present time the epidemic tendency has been kept under. There occurred, however, not many months ago a sudden outbreak of some ten or twelve cases, which afford a striking instance of how failure to isolate a patient may easily lead to a spread of the disease. The cases were all traced to one man who had fallen ill soon after landing from a foreign ship. His illness had not been recognised at once, and he had remained in his lodgings for some days before his case was notified, and before his removal to the hospital ships. The other cases were all traced to have had communication with this man, or his surroundings, under circumstances which showed that if he had been removed at once, probably all the others would have escaped the disease. Another case of the efficiency of isolation is also remarkable. You all, no doubt, know that the people of Leicester are much opposed to vaccination, and that a considerable proportion of the population is not vaccinated. They have, however, managed to escape during a long series of years from the ravages of small-pox, whilst epidemics of small-pox have raged in many towns and country districts of England. They have obtained this immunity, by paying very careful attention to the general sanitation of their town, and especially by maintaining a very efficient isolation in all cases where the disease manifests itself. They have an isolation hospital, to which anyone attacked with small-pox is removed, unless adequate isolation can be afforded at home; and they isolate not only the patient, but the family who have been in contact with the patient, paying their wages, and keeping them isolated under supervision for a sufficient period, to ascertain that they do not develop small-pox. Moreover, they do recognise the advantages of vaccination, in that they insist on vaccinating all such persons and their attendants. Inasmuch, however, as vaccination and revaccination afford an almost complete immunity from small-pox, the majority in this country wisely prefer the absolute safeguard of universal vaccination, to the risk of small-pox, which Leicester incurs; but we may learn from the Leicester practice in regard to small-pox, how to treat other infectious diseases, and by taking steps to isolate immediately every case of infectious disease, arrive at almost stamping them out.

The Sanitary Authorities who adopt the Act for the notification of disease, do, however, only part of the work necessary for

the prevention of infectious disease, unless they also provide isolation hospitals.

You must also remember that one of the conditions necessary to make isolation effective is the careful, immediate disinfection of premises, furniture, and clothing. Now this is especially the duty of the Sanitary Inspector. He must, therefore, possess adequate knowledge of the various materials to be used in disinfection, and how to apply them; he must also be furnished with adequate appliances for disinfection. It cannot be too strongly urged that if the notification of infectious disease is to be really effective as an instrument for preventing the spread of disease, careful immediate isolation and disinfection is imperative. I regret to say that in Worcestershire, many Sanitary Districts, and especially Rural Sanitary Districts, have only very partially recognised the importance of providing either isolation hospitals or adequate disinfecting appliances.

There is another point on which, I think, I can usefully say a few words, that is, on the disposal of house refuse. This subject is indeed one of growing importance, for our population increases rapidly, and the refuse which has to be disposed of increases in proportion. This refuse consists of 1st, fecal matter; 2nd, of house slops; and 3rd, ashes, kitchen waste, and other household refuse. In country districts, where houses are separate, the utilization of these matters is comparatively simple. They can generally be utilized without sanitary danger, in increasing the fertility of the garden and the field. But where houses are close together, as is the case in large villages and in towns, the difficulties are greater. You will hear in the course of these lectures what are the most effectual modes of disposing of these matters. I would only observe that the refuse, on sanitary grounds, ought never to be allowed to remain long in the house itself, nor ought it to be accumulated near the house, either in heaps where it contributes to pollute the air, or in pits where it may contribute to pollute the wells. The only safe plan is to place it in a metal receptacle and to have it removed to a distance, for purpose of utilization, every morning. In the final disposal of town refuse, it has sometimes been the custom to adopt very unsanitary proceedings. In the vicinity of many large towns this refuse has been sometimes used as the means of raising the level of the ground to afford a foundation for new houses. The continued rising of vapour from the ground makes this a most dangerous proceeding, and fevers and other diseases have been thereby occasioned in the dwellings built on such a foundation. This method of disposal is now fortunately comparatively rare.

The process of dust sorting by hand, which is still to some extent practised, is an insanitary occupation, and a large number of towns resort to destruction by fire as the simplest method of getting rid of it. Where refuse is burnt without smell the method is not insanitary, it saves trouble, and the refuse affords a fuel which may be utilized to assist in driving engines, to make electric light, or otherwise. Burning house refuse is, however, somewhat wasteful, and the insanitary part of dust sorting is obviated by the method of mechanical sorting invented by Messrs. Rosser and Russell. By this plan the refuse is discharged from the dust-cart into a sorting cylinder, by the aid of which, and of other ingenious appliances, the refuse is almost entirely sorted without being touched by hand, and the whole can be utilized; any usable articles are sold to assist various manufactures; some is sold as fuel and breeze, and the waste paper is passed through steam, by which it is disinfected, repulped, and made into rough cardboard or rough brown paper. This process is a further development of the principle of the utilization of waste, which is so important a feature of our civilization. We have long recognised that the application of sewage to land as a means of purifying it is absolutely essential, in order to enable us to dispose of the sewage of inland towns, villages, and districts, if our water supply is not to be injured; and this application of the principles of utilization to the refuse from the dust-cart, relieves us from a great difficulty which has hitherto governed the disposal of refuse.

This, however, is only one of the numerous inventions by which our Sanitary appliances are being daily altered and improved. Many of these improvements show us that what we have been accustomed to look upon as comparatively insignificant matters, are really of vast importance to the preservation of health.

But you will see from this summary that in order to deal intelligently with these apparently small matters, the Sanitary Inspector must possess a very considerable amount of technical knowledge, and each year these requirements are increasing. Now, although one of the chief functions of the Sanitary Inspector is to give attention to these apparently small causes in order to bring them to the notice of the Medical Officer of Health, and thus assist in preventing the spread of disease, you are all aware that if a house and its surroundings are to be kept in a healthy condition, it must be so kept by those who live in the house, that is to say, by the householder himself. But the householder is often careless about such matters; more

frequently, indeed, he is not aware of the evils which defective sanitation entails on himself and on his neighbours. The Sanitary Inspector is, however, or should be always at hand to point out the requirements of Sanitation to the householder when he is careless, and to teach him these requirements when he is ignorant of them. In carrying out the duty of explaining his shortcomings to the householder, something more than mere knowledge is required. If he is to spread the cause of Sanitation efficiently, he requires eminent tact.

There are two ways of approaching people under an Act of Parliament. One way is to threaten legal proceedings, and to order things to be done without explaining the object of the work required. That is a very injudicious way. It hinders rather than advances Sanitation. The other way is to use the position of a Sanitary Inspector as a means of teaching people and educating them in sanitary methods, so as to make them understand that they thereby diminish the causes which lead to preventable infectious disease. That is the true way to ensure proper attention to the subject. It is far better for people to do the work of sanitation willingly, and look upon the Sanitary Inspector as their friend, than to regard sanitation in a hostile spirit, and look on the Sanitary Inspector as a prying, intolerant autocrat, who would force upon them the principles of sanitation, whether or not they like and understand them.

I do not think that I can impress upon you too strongly that all our sanitary progress depends upon the recognition by the public that sanitation is desirable and necessary.

If you look into the Bible you will see that Moses included his sanitary precepts as a part of the religion of the people, and that he committed the duty of enforcing sanitary regulations to the care of the priests. We ought to take an example from that plan, and make sanitation distinctly a part of our elementary education; but meanwhile with us the Sanitary Inspector is the missionary upon whom devolves the duty of explaining to the people the importance of paying a close attention to sanitary details.

I look upon this duty, which lies upon the Sanitary Inspector, of educating the people in sanitation as a great and important mission, and I should like to impress upon all Sanitary Inspectors the importance of the educational position which they hold. They are continually in direct touch with the people, and they possess admirable opportunities ready to their hands for explaining to the people the importance of paying close attention

to sanitary details. Until the people themselves feel the importance of sanitation, very little real and substantial advance can be made by the nation.

Acts of Parliament may be necessary to assist sanitary progress and to enforce sanitary discipline, but laws can do little unless aided by the earnest, the strenuous co-operation of every individual member of the community. The Sanitary Inspector has it in his power, in the daily exercise of his duty, to explain, to teach, and to show practically to the artizan and to the labourer how, by care and attention to cleanliness in their persons, their food, their homes, and their surroundings, they can preserve their own health, and save their children and families from preventable sickness and death. Therefore, in conclusion, I would urge you to impress upon the minds of those under your charge the words of the poet, Goldsmith:—

"How small of all that human hearts endure
That part which laws or kings can cause or cure!
Still to ourselves in every place consigned,
Our own felicity we make or find."

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 (d) of that Act.

Up to December 31st, 1892, 76 Examinations had been held—30 for Local Surveyors, and 46 for Inspectors of Nuisances. 2041 Candidates had been examined, 216 as Local Surveyors, and 1825 as Inspectors of Nuisances; of these 1238 passed the Examinations and received Certificates, 98 as Local Surveyors, and 1140 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—viz., usually from 11 a.m. to 2 p.m. On the second day the Examination for each class is *viva 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 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.

EXAMINATIONS ARRANGED FOR 1893.

For Surveyors—

London—Friday and Saturday, June 9th and 10th.

For Inspectors of Nuisances—

Worcester—Friday and Saturday, January 27th and 28th.

London " " April 14th and 15th.

King's Lynn " " April 28th and 29th.

Exeter " " May 26th and 27th.

Dublin " " June 23rd and 24th.

Leeds " " July 7th and 8th.

Cardiff " " July 28th and 29th.

Newcastle-upon-Tyne " " November 10th and 11th.

London " " December 1st and 2nd.

Manchester " " December 15th and 16th.

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.

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.

(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 manufacturing establishments 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, flour, 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.

Syllabus of Subjects for Examination.

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 Manufacturing.

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.

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

The sale of Food and Drugs' 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 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—Scavenging 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. . . ."

Extract from Advertisements—Continued.

LIVERPOOL.

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

METROPOLITAN—29.

City of London, 1891.
Battersea, 1885-9-91-3.
Bethnal Green, 1889-90.
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.
Lambeth, 1890.

Limehouse, 1890.
Marylebone, 1891.
Newington, 1891.
Paddington, 1884-89.
Poplar, 1890.
Rotherhithe, 1893.
St. George's, Hanover Square, 1891.
St. George's-in-the-East, 1892.
St. James's, Westminster, 1891.

St. Luke's, 1887-91-93.
St. Margaret, Westminster, 1892.
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.
Whitechapel, 1891.

PROVINCIAL—92.

Aberavon, 1893.
Alton, 1893.
Barnet, 1890.
Bath, 1890.
Battle, 1890.
Bedwellty, 1891-92.
Bexhill, 1892.
Birkenhead, 1891.
Birmingham, 1892.
Blackburn, 1892.
Blackpool, 1889.
Blean, 1890.
Bolton, 1893.
Bournemouth, 1891-92.
Bradfield, 1891.
Brierley Hill, 1890-91.
Bristol, 1884-86.
Bromley, Kent, 1891-91.
Cardiff, 1890-91.
Carlisle, 1890-93.
Carnarvon, 1891.
Chesterfield, 1892.
Chiswick, 1891.
Clay Lane, 1892.
Coventry, 1891.
Croydon, 1891.
Darwen, 1891.
Dewsbury, 1886-90.
Dorchester, 1892.
Eastbourne, 1889.
Ely, 1888.
Exeter, 1889.

Foleshill, 1891.
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.
Margate, 1888-90.
Margram, 1893.
Midhurst, 1892.
Milton-by-Sittingbourne, 1887.
Nantyglo, 1891.
Nelson, 1892.
Newcastle-on-Tyne, 1891.
Newmarket, 1887-88-90-92.
Northampton, 1892.
Norwich, 1892.
Oswestry, 1887.
Plymouth, 1892.
Pontypool, 1892.
Pontypridd, 1890-92.
Poole, 1893.

Portsmouth, 1890.
Pottersbury, 1893.
Rhyl, 1890.
Risbridge, 1893.
Salford, 1891-92.
Scarborough, 1888.
Sheffield, 1890-91-93.
Southampton, 1890-91.
Staffordshire County Council, 1892.
Stockport, 1891-92.
Stockton, 1887-90-91.
Stretford, 1892.
Stroud, 1892.
Sunderland, 1885-92.
Swansea, 1893.
Tendring, 1891.
Thakeham, 1890-90-92.
Twickenham, 1887.
Wakefield, 1891.
Ware, 1891.
Watford, 1887.
West Bromwich, 1892.
West Ham, 1891-93.
Wigan, 1891.
Willesden, 1891.
Winslow, 1893.
Wimbledon, 1890.
Winslow, 1893.
Wood Green, 1892.
Worthing, 1890-91.
Yorkshire, W.R., 1891.

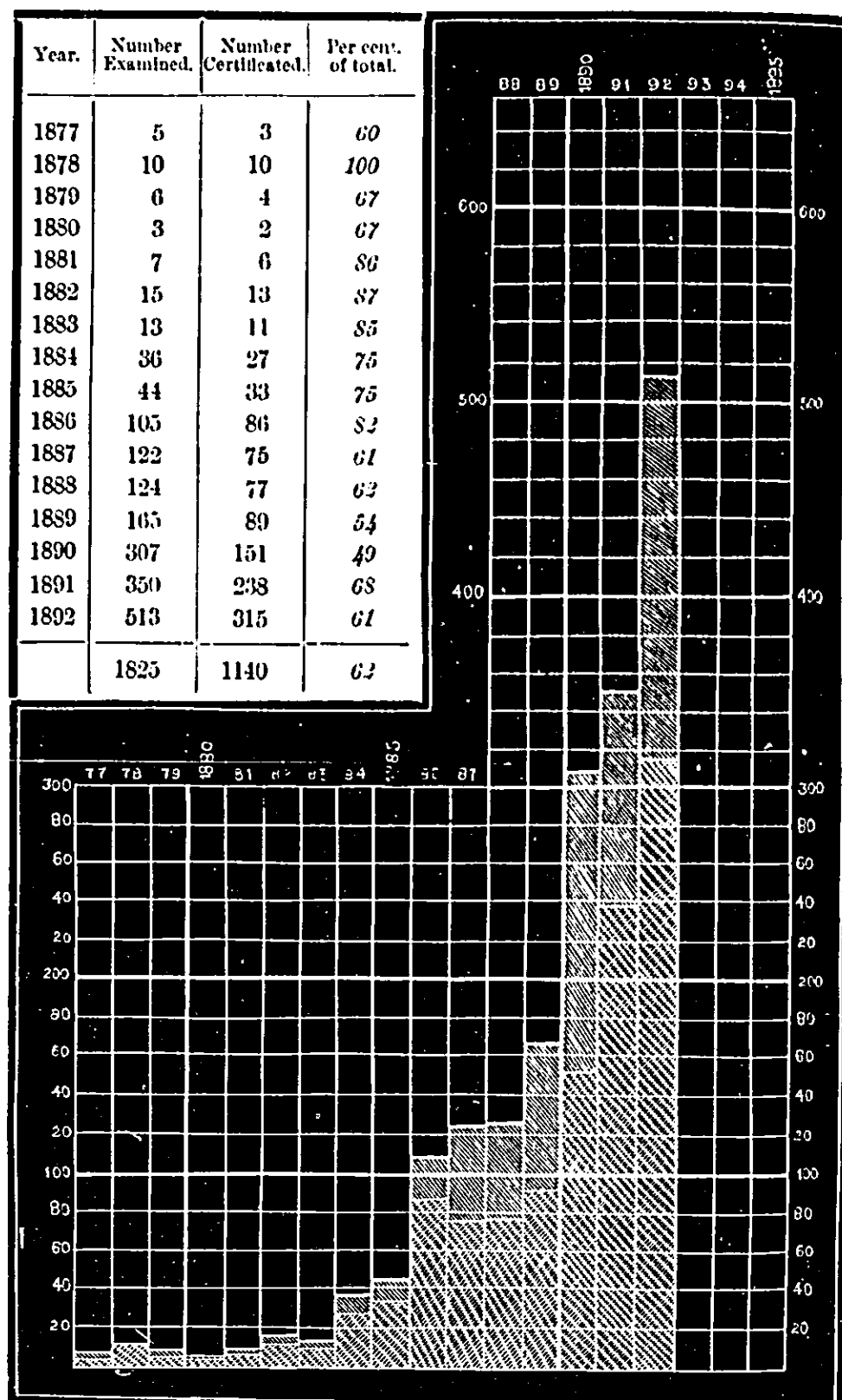
COLONIAL—1.

Cape Colony, 1891.

Table shewing the number of Candidates examined and 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
	216	1825	2041	93	1140	1233	45	62

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



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

LIST OF CANDIDATES WHO RECEIVED CERTIFICATES DURING 1892.

LOCAL SURVEYORS.

- 1892, June 18. BROWN, EDWIN, Burgess Hill, Sussex.
 1892, June 18. CONNAL, EBEN, 40, Kerrsland Terrace, Hillhead, Glasgow.
 1892, July 9. DAYE, JOHN, 3, Diana Street, Albany Road, Cardiff.
 1892, June 18. DENDY, WILLIAM COOPER, Surveyors' Department, Lambeth.
 1892, June 18. DIXON, FRANCES EDWARD, Walton-le-Dale Local Board, Preston.
 1892, Apr. 29. GODDARD, JOSEPH, Springfield Farm, Chinley, Chapel-en-le-Frith.
 1892, Apr. 29. GREEN, WILLIAM SAMUEL, Idridgehay, Derby.
 1892, June 18. GRIFFITHS, HAROLD, School Board Offices, Embankment, W.C.
 1892, Apr. 29. KILFORD, HENRY JAMES, Borough Surveyor, Ilkington.
 1892, June 18. KIRK, JOHN WRIGHT, Vestry Offices, Battersea Rise.
 1882, June 18. LLOYD, CHRISTOPHER, 2, St. Mark's Terrace, New Brompton.
 1892, June 18. MILLER, HENRY, "The Wilderness," Carrow Hill, Norwich.
 1892, June 18. MITCHELL, LEWIS, Hurlford, Kilmarnock.
 1892, June 18. NEWMAN, REGINALD WILLIAM, 53, Barnmead Road, Beckenham.
 1892, Apr. 29. OUTRAM, MASON, Mill House, Dronfield, Sheffield.
 1892, July 9. RIDGWAY, ERNEST REGINALD, Long Eaton, Nottingham.
 1892, June 18. STANBURY, WILLIAM HENRY, Royal Engineers' Office, Freetown, Sierra Leone.
 1892, July 9. WILLIAMS, WILLIAM ILTYD, Pentregwithel, Abergavenny.
 1892, July 9. WILSON, JOHN A., 18, Rodney Terrace, Cheltenham.
 1892, June 18. YATES, FRED SPENCER, ASSOC. INST. C.E., City Surveyor's Office, York.

INSPECTORS OF NUISANCES.

- 1892, June 11. ACKERNLEY, JOSEPH, Broughton Road, Skipton.
 1892, Apr. 9. ADAMS, ALBERT EDWARD, 29, Alexander Road, Northampton.
 1892, July 16. ALLEN, THOMAS HOLTON, Strumpshaw, Norwich.
 1892, June 11. ANDERSON, GEORGE HART, Town Hall, Middlesboro'.

- 1892, Dec. 3. ANDERSON, JASPER KIRKLEY, 13, Railway Street, Beverley, Yorkshire.
 1892, June 11. ARMITAGE, FREDERICK L., Upper Spring Street, Huddersfield.
 1892, June 11. ARMITAGE, THOMAS ALBERT, 12, South Parade, Huddersfield.
 1892, June 11. ARNSBY, WILLIAM EDWARD, Long Acre, Bingham, Notts.
 1892, Dec. 3. ASHLEY, SYDNEY, 14, Gower Street, W.C.
 1892, Dec. 17. ASHURST, GEORGE NORMAN, 40, Allington Street, St. Michael's, Liverpool.
 1892, Apr. 29. ATKINS, BENJAMIN, 31, Russell Street, Leamington Spa.
 1892, Dec. 3. BACHE, ARTHUR EDWARD, 51, Elswick Rd., Lewisham.
 1892, Dec. 3. BAGSHAW, ALLEN, Junr., 46, Beatrice Street, King Street, Plaistow.
 1892, July 16. BAKER, HENRY KIRKHAM, 9, North Terrace, Cambridge.
 1892, June 11. BALDWIN, PARKINSON, Farnhill, Kildwick.
 1892, June 11. BARKER, WILLIAM THOMAS, Town Hall, Salford.
 1892, Dec. 17. BARON, JOHN, 12, William Street, Little Lever.
 1892, Dec. 3. BARTH, FREDERICK ALFRED, 17, Kensington Place, Campden Hill, W.
 1892, Apr. 9. BATES, MATTHEW, Local Board Offices, Bromley, Kent.
 1893, Dec. 3. BELCHER, CHARLES ROBERT, 84, Loughborough Road, S.W.
 1892, Apr. 9. BENNETT, ALBERT, 138, Clarence Road, N.W.
 1892, Dec. 3. BENNETT, HENRY MARLING, Victoria Street, Staple Hill, Bristol.
 1892, Dec. 3. BILLING, GEORGE TIMOTHY, 16, Olinda Street, Portsmouth.
 1892, Dec. 17. BLYTHE, OSBORNE, Junr., Foxton Hall, Alnmouth, Northumberland.
 1892, June 11. BOLTON, JOSEPH, Sanitary Inspector, Otley.
 1892, June 11. BORRAS, THOMAS, 5, Littlewoodhouse Street, Leeds.
 1892, June 11. BOTTOMLEY, ALBERT EDWARD, 64, Ovenden Road, Halifax.
 1892, Apr. 9. BOWDEN, WILLIAM GEORGE FREDERICK, 38, Crozier Street, Lambeth, S.E.
 1892, June 11. BRAITHWAITE, THOMAS, Darton, Barnsley.
 1892, Apr. 29. BRAMHAM, WILLIAM, Fern Cottage, Market Street, Clay Cross.
 1892, Dec. 3. BRAYBON, FREDERICK WILLIAM, 52, Grosvenor Street, Brighton.
 1892, Apr. 9. BROMLEY, JAMES, Rothwell Estate Office, Sharples Hall, Bolton.
 1892, June 11. BROUGH, RICHARD, 28, Servia Grove, Leeds.
 1892, Apr. 9. BROWN, REGINALD, Local Board, Ealing.
 1892, Apr. 9. BROWN, ROBERT FREDERICK, 130, Devonshire Street, Mile End.

- 1892, Apr. 9. BROWN, ROBERT, Junr., 44, St. Ann's Hill, Wandsworth.
 1892, June 11. BUCK, SAMUEL, Dacre Banks, Leeds.
 1892, Dec. 3. BUCKTON, WALTER, 27, Ladbroke Square, W.
 1892, Dec. 3. BUSBRIDGE, HAROLD, 96, Herbert Road, Plumstead.
 1892, July 9. BUSH, SPENCER, High Roding, Dunmow, Essex.
 1892, Apr. 9. BUTCHER, CHARLES ERNEST, 17, Circus Road, St. John's Wood, N.W.
 1892, Dec. 3. BUTLER, CHARLES EDWARD, Surveyor's Office, Shoreham.
 1892, Apr. 9. BUTTON, WALTER.
 1892, July 16. CANNELL, CHARLES STEPHEN, 32, Knowsley Road, Magdalen Road, Norwich.
 1892, Dec. 3. CARPENTER, ROBERT, Sergt.-Major, The Barracks, Hounslow.
 1892, Mar. 5. CASELY, EDWIN JOHN, 46, Alpha Road, Southville, Bristol.
 1892, June 25. CATTLEFF, WILLIAM, Town Hall, Newcastle-upon-Tyne.
 1892, Dec. 3. CAYTON, HERBERT, Sherfield House, Grays.
 1892, Dec. 17. CHADWICK, JOHN, Petersfield, Hants.
 1892, Apr. 9. CHALK, JOSEPH, Waterworks Engineer's Department, Southampton.
 1892, July 16. CHALLENGER, WILLIAM, Southery, Downham Market.
 1892, June 11. CHAMBERS, FREDERICK, Local Board Offices, Goole.
 1892, July 16. CHAPMAN, CECIL ROBERT WILLIAM, 5, Carshalton Road, New Lakenham, Norwich.
 1892, July 9. CHAPPEL, WILLIAM ROBERT, 50, Rodney Street, Swansea.
 1892, Dec. 17. CHARLESWORTH, JAMES FREDERICK, 11, Union Street, Southport.
 1892, July 9. CHARTERS, ROBERT H., The Moors, Cadoxton, Cardiff.
 1892, Dec. 3. CHESTERFIELD, WILLIAM JAMES, 32, Rosaville Road, Fulham.
 1892, June 11. CLARK, ARTHUR EDWARD, "The Sanatorium," York Road, Leeds.
 1892, Dec. 3. CLARKE, CHARLES HENRY, 2, Rutland Terrace, High Road, Leyton.
 1892, June 11. COATES, JOSEPH CARTER, New Brighton, Bramley, Leeds.
 1892, June 11. COATES, WILLIAM MORFIN, 13, Northbrook Street, Chapelton, Leeds.
 1892, Apr. 9. COOK, WILLIAM GEORGE, Wetherell Cottage, Well Road, Hampstead.
 1892, Dec. 17. CORRIGAN, JOSEPH, 24, Keble Street, Ince, Wigan.
 1892, Mar. 5. COTTY, JOHN FREDERICK, 40, Princes Street, Bristol.
 1892, Apr. 9. CROFTS, THOMAS JOHN, 50, Central Street, Landport, Portsmouth.
 1892, Dec. 3. CUCKNEY, JAMES ALFRED, 37, Grosvenor Street, Brighton.

- 1892, Apr. 9. CURRIE, THOMAS, Marshall Cottage, Hawkhill, Ayr.
 1892, Dec. 3. CURTIS, JAMES, Court House, Marylebone.
 1892, Apr. 29. DANE, SAMUEL, Primrose Lane, Glossop.
 1892, Mar. 5. DAVID, PHILIP, 23, North Luton Place, Cardiff.
 1892, July 9. DAVIES, DAN, Ferndale, Rhondda Valley, Glamorgan.
 1892, Dec. 3. DAVIES, EDWARD PLUMMER, Ty-Eos-y-Coed, Llanover, Abergavenny.
 1893, July 9. DAVIES, LLEWELLYN, Priory House, Albany Road, Cardiff.
 1892, Dec. 17. DAVIES, SAMUEL, 6, Edith Road, Anfield, Liverpool.
 1892, July 9. DAVIES, WATKIN J., 4, Queen Street, Maesteg.
 1892, June 25. DAVISON, GEORGE WILLIAM, Boys' Industrial School, Sunderland.
 1892, Dec. 3. DAWES, HENRY, 72, Rendlesham Road, Clapton.
 1892, Mar. 5. DAWSON, EDWARD HOWARD, A.R.I.B.A., 41, Market Street, Lancaster.
 1892, Mar. 5. DAYE, JOHN, 3, Diana Street, Albany Road, Cardiff.
 1892, Dec. 3. DEARSLEY, JAMES H., 46, Glenarn Road, Lower Clapton.
 1892, June 11. DENHAM, HODGSON, Aberford, Leeds.
 1892, Apr. 29. DEWHIRST, JAMES, 4, New Bridge Street, Keighley, Yorkshire.
 1892, Dec. 17. DICKINSON, ARTHUR JAMES, 456, Glossop Road, Sheffield.
 1892, June 11. DODGSON, WILLIAM, Woodside, Cononley, Keighley.
 1892, Apr. 29. DOLMAN, WILLIAM, 15, Arundel Street, Derby.
 1892, July 16. DOWZARD, RICHARD, 85, Esmond Street, Liverpool.
 1892, Dec. 3. DRAKE, FREDERICK, 64, King Street, Maidstone.
 1892, June 11. DUNHILL, JOHN WILLIAM, 13, Berry Street, Hall Lane, Bradford, Yorks.
 1892, Dec. 3. EDSE, WILLIAM, 15, Harrow Road, Dorking.
 1892, June 25. EGGLESTONE, WILLIAM MORLEY.
 1892, Apr. 9. ELLIS, STANLEY, 28, Chertsey Street, Guildford.
 1892, Dec. 3. ELMS, THOMAS HOOD, 43, Mall Road, Hammersmith.
 1892, Mar. 5. EVANS, JOHN ISAAC, 11, Blanche Street, Cacharris, Dowlais.
 1892, Dec. 3. FARMER, WILLIAM RICHARD, 133, Paulet Road, Camberwell.
 1892, Dec. 17. FINCH, JOHN THOMAS, 17, Cornwallis Street, Liverpool.
 1892, July 9. FLOOD, WILLIAM HOLSGROVE, 44, High Street, Crediton, Devon.
 1892, Dec. 3. FORTUNE, EDWARD ISAAC, 12, Frederick Street, Gray's Inn Road, W.C.
 1892, Apr. 9. FOSTER, EDWARD TRUMP, 29, St. Maur Road, Fulham.
 1892, Dec. 3. FREEMAN, WALTER, 31, Lamb's Conduit Street, W.C.
 1892, Dec. 3. FRENCH, HARRY C., 113, Shirland Rd., Paddington.
 1892, Apr. 9. FRIEND, ALICK EDWARD, 22, Hemingford Road, Barnsbury.

- 1892, Dec. 17. GAMBLE, DAVID, Local Board, Ashton-in-Makerfield.
 1892, Apr. 9. GARNHAM, ALBERT EDWARD, Beulah Place, Beulah Hill, Norwood.
 1892, June 25. GIBSON, JOHN, Town Hall, Newcastle-upon-Tyne.
 1892, Apr. 9. GOLDER, THOMAS COLLINGS, 5, Connaught Road, Folkestone.
 1892, Dec. 3. GOODALL, NORMAN, Russell Street, Batley.
 1892, June 25. GOODFELLOW, ROBERT HECTOR, Camp Street, Maryport.
 1892, Dec. 3. GRANT, ERNEST HENRY, Angmering, Worthing.
 1892, Dec. 17. GRAYSON, SAMUEL, 5, Trajan Street, South Shields.
 1892, June 11. GRIFFIN, THOMAS GULLIVER, Laurel Cottage, Clay Cross, Chesterfield.
 1892, July 9. GRIFFITHS, WILLIAM, 56, Upper Aberdyberthi Street, Swansea.
 1892, June 11. HAIGH, BENJAMIN, Town Hall, Huddersfield.
 1892, June 25. HALL, GEORGE WILLIAM, The Workhouse, Cheadle, Stoke-on-Trent.
 1892, July 9. HALL, JOHN, Poundfield, Stonehouse, Gloucester.
 1892, June 11. HALL, THOMAS JOHN, Rural Sanitary Authority, Barnsley.
 1892, June 11. HAMMOND, WILLIAM HENRY, South Parade, Horbury.
 1892, June 25. HARDING, JOHN, Baker Street, Haswell, Sunderland.
 1892, July 16. HARDY, ALFRED, Yarmouth Road, Thorpe, Norwich.
 1892, Dec. 17. HARGREAVES, JAMES WILLIAM, 296, New Church Road, Stacksteads.
 1892, July 9. HARRISON, ROBERT COLCHESTER, Brynonen, Dowlais, Glamorgan.
 1892, Apr. 9. HART, FREDERICK, 32, Wyndham Street, Bryanston Square, W.
 1892, Dec. 3. HARVEY, WILLIAM, 117, Dunlace Road, Lower Clapton.
 1892, Dec. 3. HEATH, JAMES, 85, Dennett Road, West Croydon.
 1892, Apr. 9. HENLEY, AMOS S., Camberwell Workhouse, Willowbrook Road, Peckham.
 1892, Dec. 3. HERRIN, JOHN, 31, The Avenue, Acre Lane, Brixton.
 1892, Apr. 9. HERRIOTT, HARRY, St. George's, Hanover Square.
 1892, Apr. 29. HERROD, HERBERT, Barrow-on-Soar, Loughborough.
 1892, July 9. HILL, CHARLES WILLIAM, 30, Donald Street, Cardiff.
 1892, Dec. 17. HILL, SAMUEL GOSTAGE, 14, Aigburth Road, Grassendale, Liverpool.
 1892, Dec. 3. HILLYARD, HENRY, 74, Duncombe Road, Hornsey Rise.
 1892, June 25. HINDLE, WILLIAM JAMES, Morton, Bingley, Yorks.
 1892, June 11. HIRST, FRANK S., 53, Kingcross Road, Halifax.
 1892, Dec. 17. HITCHMOUGH, WILLIAM, 142, Tunhill Rd., Liverpool.
 1892, Apr. 9. HOBBS, JAMES SHOTEN, 61, New Road, Buckland, Portsmouth.
 1892, Dec. 17. HOLDEN, TIMOTHY, 272, City Road, Manchester.
 1892, June 11. HOLDROYD, ALFRED, Local Board, Cleckheaton.

- 1892, Dec. 3. HOLLAND, EDWARD LOUIS COPEMAN, 118, St. James' Road, Portsmouth.
 1892, June 11. HOLMES, JOHN EDWARD, North Collingham, Newark.
 1892, June 11. HOLROYD, JAMES BATES, Poor House, Barkisland, Yorks.
 1892, Apr. 29. HOPKINSON, FREDERICK, 11, Cross St., Chesterfield.
 1892, Apr. 9. HORTON, WILLIAM, 22, Halsey Street, Chelsea.
 1892, Dec. 3. HOSKINS, NANCY W., 61, Plumstead Common Road, S.E.
 1892, June 11. HUDSON, ALBERT EDWARD, 28, Oxford Lane, Siddall, Halifax.
 1892, Dec. 17. HUGHES, ROBERT JOHN, 105, Cloughton Road, Birkenhead.
 1892, Dec. 3. HUNTER, JOHN, Grove Road, Windsor.
 1892, Dec. 17. HURST, JOHN, 158, Palmerston Street, Beswick, Manchester.
 1892, Mar. 5. HUTCHINGS, WILLIAM ARTHUR, 15, St. John's Park Terrace, Winchester.
 1892, Apr. 29. HYDE, GEORGE, 214, Osmaston Road, Derby.
 1892, July 9. JAMES, WILLIAM ROBERT, Local Board Office, Abersychan, Pontypool.
 1892, Dec. 3. JARRATT, EDWARD JOHN, 11, Albion Hill, Lewisham Road.
 1892, June 25. JEMSON, WILLIAM, Hoskinshire, Out Rawcliffe, Garstang.
 1892, Dec. 3. JENKIN, CHARLES HENRY, 30, Little Russell Street, Bloomsbury.
 1892, Dec. 3. JEVONS, JOHN HENRY, Braintree, Essex.
 1892, June 11. JONES, JOSEPH, 1, New Street, Pudsey.
 1892, Apr. 9. KELL, CHARLES H., 22A, Dorinda Street, Liverpool Road, N.
 1892, Dec. 3. KERSLAKE, CHARLES HENRY, 47, Relf Road, Peckham Rye.
 1892, Apr. 9. KILLGALLIN, CHARLES J., Court House, St. Marylebone, W.
 1892, Apr. 9. KNOX, CHARLES GEARY, 60, Lordship Road, Stoke Newington.
 1892, Apr. 9. LAMPORT, MISS ETHEL FRANCES, 55, Burton Crescent, W.C.
 1892, Dec. 3. LAWRENCE JAMES, 12, Bridge Road West, Old Battersea, S.W.
 1892, Apr. 9. LAWRENCE, WILLIAM JAMES, 71, Chadwick Road, Peckham.
 1892, Dec. 3. LEACH, ROBERT, 6, Barton Street, Westminster.
 1892, Apr. 29. LEE, JOHN, 64, St. Paul's Road East, Birkenhead.
 1892, Dec. 17. LEE, ROGER, 10, Thompson Street, Hendon, Sunderland.
 1892, Dec. 3. LEWIS, ELI, Pendoylan, Cowbridge, South Wales.
 1892, June 11. LIGHTFOOT, JAMES, Town Hall, Huddersfield.
 1892, June 11. LINDLEY, JOSEPH, Cliffe Villa, Staincliffe, Dewsbury.

- 1892, July 16. LING, ALFRED GEORGE, Hempstead, Holt, Norfolk.
 1892, Dec. 3. LINTOTT, JOHN, 80, London Road, Brighton.
 1892, Apr. 29. LITTLE, WILLIAM, 26, Overbury Street, Liverpool.
 1892, Apr. 9. LOASBY, FRED WALTER, 30, Liverpool Street, King's Cross.
 1892, Dec. 17. LORD, RALPH, 38, Alexandra Road, Ashton-under-Lyne.
 1892, Dec. 3. LOVELOCK, HERBERT JOHN, 5, St. Edward's Terrace, Stamshaw, Portsmouth.
 1892, Dec. 3. LYON, FREDERICK, 616, Mile End Road, E.
 1892, Apr. 9. LYON, JAMES JOSEPH, 6, Rice Lane, Walton, Liverpool.
 1892, Mar. 5. LYONS, JOHN THOMAS, Eastwood Villa, Wentworth, Road, Bishopston, Bristol.
 1892, Dec. 3. MADGE, FRANK WM., 46, London Road, Forest Hill.
 1892, June 11. MALLINSON, THOMAS, 95, Gowthorpe Street, Selby.
 1892, Dec. 3. MARKS, CHARLES ALFRED, 7, Somerset Terrace, Merton Road, Wandsworth.
 1892, Dec. 3. MARRABLE, HORACE, 16, Willenhall Road, Plumstead.
 1892, Apr. 9. MARTIN, A. W., 3, Plumstead Road, Plumstead.
 1892, Apr. 9. MARTIN, HENRY RICHARD, Essendine Road, Caterham.
 1892, June 11. MASSEY, WILLIAM, Marine Hotel, Whitby.
 1892, June 11. McMILLAN, JOHN, 26, Park Street, Stockport.
 1892, June 25. MEADOWS, JOHN WILLIAM, 52, Camden Street, North Shields.
 1892, July 9. MEAZEY, THOMAS, Grove Cottage, Stanwell Road, Penarth.
 1892, Dec. 3. MILLARD, CHARLES K., M.B., Costock, Loughborough.
 1892, Apr. 9. MILLER, FREDERICK WILLIAM, 137, Salcott Road, Clapham Common.
 1892, Apr. 9. MILLER, WILLIAM J., 53, Balliol Road, Buckland, Portsmouth.
 1892, June 11. MILLINGTON, THOMAS CHARLES, Craven Terrace, Settle, Yorks.
 1892, June 11. MILLS, JOHN WILLIAM, 21, Victoria Mount, Woodsley Road, Leeds.
 1892, Apr. 9. MILLS, ERNEST EDWARD, 4, Rugby Place, Brighton.
 1892, Dec. 17. MOONEY, PATRICK, 353, Chester Road, Manchester.
 1892, Dec. 3. MORLEY, FREDERICK WILLIAM, 19, Tadmore Street, Shepherd's Bush.
 1892, Apr. 29. MORLEY, WILLIAM, 7, Shaw Street, Edgbaston Road, Derby.
 1892, Apr. 29. MORRISON, JOHN WILLIAM, Town Hall, Salford.
 1892, Dec. 3. NANKIVELL, HERBERT HENRY, Hoe, Nr. Dereham, Norfolk.
 1892, June 25. NEWBY, JOHN, 1, Newton Terrace, Hebburn New Town.
 1892, Apr. 9. NEWNHAM, FRANK GEORGE, 9, York Place, Brighton.

- 1892, Apr. 9. NORTHCOMBE, JAMES WEBB, 15, Greenbrook Terrace, Taunton.
 1892, Dec. 3. NORTON, ELIZABETH JANE, 8, Clifton Gardens, W.
 1892, June 11. NOWLIN, HENRY CLARK, Health Office, Sheffield.
 1892, Apr. 9. ODELL, ARTHUR, 22, Dorset Street, Pimlico.
 1892, Apr. 9. ORCHARDSON, ROBERT, 2, Manor Place, Ospringe, Faversham, Kent.
 1892, June 25. OSBORNE, WALTER, 13, Third Street, Gateshead-on-Tyne.
 1892, July 9. OWEN, JOHN THOMAS, 9, Brynteg Terrace, Merthyr Tydfil.
 1892, Dec. 17. PALLISER, WILLIAM ARTHUR, 55, Canning Street, Birkenhead.
 1892, Dec. 3. PALMER, HERBERT ALBERT, 315, Ivydale Road, Nunhead.
 1892, Apr. 9. PALMER, JAMES, 35, King William Street, Greenwich.
 1892, July 16. PANK, R. ARNOLD, St. Andrew's, Norwich.
 1892, June 25. PARKER, JOHN EDWARD, Lanchester, Co. Durham.
 1892, Dec. 3. PARKINSON, ARTHUR CHARLES, 27, Southampton Row, W.C.
 1892, July 16. PARROTT, JOHN STEPHEN, Downham Market, Norfolk.
 1892, Dec. 3. PATCHING, WALTER C., 9, Chapel Road, Worthing.
 1892, Dec. 3. PATCHING, WILLIAM GEORGE, Belfort, Worthing.
 1892, June 11. PEARSON, WALTER, 25, Milton Terrace, Hanson Lane, Halifax.
 1892, Dec. 3. PHILLIPS, CHARLES, 68, Swinton Street, Gray's Inn Road, W.C.
 1892, Apr. 9. PIDWELL, ENGALL THOMAS, 13, Kelvin Grove, Sydenham.
 1892, July 9. PILE, GEORGE CHARLES, Woodbine Cottage, Devizes.
 1892, Apr. 9. PILLING, EDWIN, 77, Tonge Moor Road, Bolton.
 1892, Apr. 9. POPE, THOMAS STEPHEN, 66, Toronto Terrace, Brighton.
 1892, Dec. 3. PORTER, JOHN JAMES, Halse Road, Brackley, Northampton.
 1892, Dec. 17. PRICE, JOHN HENRY, 29, Balmoral Road, Fairfield, Liverpool.
 1892, Apr. 9. PRIEST, ALFRED, 64, Elswick Road, Lewisham.
 1892, Dec. 17. PUDDLE, WALTER LOUIS, Health Office, North Church Street, Sheffield.
 1892, June 25. PURDIE, ALEXANDER, Lavery Street, Bill Quay, Northumberland.
 1892, Dec. 3. PURNELL, ARTHUR EDWARD, 26, Solent Crescent, West Hampstead.
 1892, Dec. 3. RANCE, JOHN WALTER, 15, Vandon Street, Westminster.
 1892, Dec. 3. READ, WALTER HERBERT, 8, Alpha Place, Regent's Park, N.W.
 1892, Apr. 9. READING, GEORGE, 6, Windsor Terrace, Cottage Grove, Southsea.

- 1892, Dec. 17. REID, THOMAS ALEXANDER, 81, High Street, Perth.
 1892, Apr. 9. RICHARDS, WILLIAM, 18, Nunhead Grove, Peckham Rye.
 1892, Apr. 20. RIDGWAY, ERNEST REGINALD, Long Heaton, Nottingham.
 1892, Apr. 20. RIDOUT, ALFRED RICHARD, Wirksworth, Derby.
 1892, June 11. RIDSDALE, JOHN WILLIAM, Municipal Buildings, Leeds.
 1892, Dec. 17. RITCHIE, PETER, 27, Jamaica Street, Edinburgh.
 1892, Apr. 20. ROBERTS, DAVID, Ashbourne, Derbyshire.
 1892, Dec. 17. ROBERTS, EVAN, 48, Bangor Street, Carnarvon.
 1892, Apr. 9. ROBERTS, WILLIAM HENRY, Brook Villa, Crossbrook Street, Waltham Cross.
 1892, Apr. 9. ROBINS, HAROLD GRAY, 29, West End Lane, N.W.
 1892, June 11. RODWELL, ASCOUGH, Union Offices, Skipton.
 1892, Apr. 9. ROPER, J. STANLEY, Greenway Court, Hollingbourn, Maidstone.
 1892, July 16. ROSHIER, EDWARD, 31, York Street, Norwich.
 1892, June 11. ROTHERA, FREDERICK, 71, Beech Road, Sowerby Bridge.
 1892, Apr. 9. ROW, EDMUND, 10, Granville Road, Hoe Street, Walthamstow.
 1892, Apr. 9. ROWLAND, SAMUEL, Local Board, Pontypridd.
 1892, Mar. 5. ROYLE, CHARLES, Wormgate, Boston, Lincolnshire.
 1892, June 11. RUMMING, HENRY, Health Office, Sheffield.
 1892, Dec. 3. RUSCOE, FRANK HARVEY, 6, Great Castle Street, W.
 1892, Dec. 17. RUSHTON, EGBERT, 9, Kendal Street, Blackburn.
 1892, June 25. SANDERSON, ISAAC, 11, Percy Street, Sunnyside, Willington, Durham.
 1892, Apr. 9. SANDON, EDWARD H., 327, Harrow Road, W.
 1892, Apr. 9. SCOTT, GEORGE LATTIMORE, 91, Queen's Road, Landport, Portsmouth.
 1892, Dec. 17. SCOTT, MRS. SARAH, 56, Irlam Road, Bootle.
 1892, Apr. 9. SCUDAMORE, GEORGE WASHINGTON, 26, Constance Road, East Dulwich.
 1892, Dec. 17. SHARRATT, JAMES BRADLEY, Town Hall, Manchester.
 1892, Dec. 17. SHAWFIELD, ARTHUR, 47, St. Domingo Vale, Everton, Liverpool.
 1892, Dec. 17. SHELDON, WILLIAM, Town Hall, Workington.
 1892, Apr. 9. SHEPPARD, RICHARD JOHN, 49, Broke Road, Dalston.
 1892, Apr. 9. SHORTLE, RICHARD, 5, Osborne Street, Sanmers Road, Southsea.
 1892, Apr. 20. SIMPSON, ROBERT, 3, Aglionby Street, Carlisle.
 1892, Dec. 17. SKIDMORE, THOMAS, 24, Mawdsley Street, Bolton.
 1892, June 25. SLATER, WILLIAM, 79, Borough Gate, Otley.
 1892, June 11. SMITH, EMMETT, Mytholmroyd, Yorks.
 1892, July 9. SMITH, FRED. W., 92, St. Leonard Gate, Lancaster.
 1892, Dec. 3. SMITH, HAMILTON, 1, Oxford Road, Putney.
 1892, Dec. 17. SMITH, JAMES PERCY, Blue Coat Hospital, Liverpool.

- 1892, Apr. 9. SMITH, PERCY, 474, New Cross Road, S.E.
 1892, Apr. 9. SMITH, RICHARD, Junr., Saltern Road, Parkstone, Dorset.
 1892, June 11. SMITHIES, ARTHUR, Albert Avenue, Starbeck, Harrogate.
 1892, Dec. 3. SORTER, CHARLES, 7, David's Road, Forest Hill, S.E.
 1892, Apr. 9. SPEARS, HENRY HORATIO, 48, Godwin Street, Birmingham.
 1892, June 11. SPEIGHT, HARRY, Kirkhamgate, Wakefield.
 1892, Apr. 9. SPINK, JOSEPH, Formby, Liverpool.
 1892, Dec. 17. STEALEY, JOSEPH, 44, Wilmslow Road, Rusholme, Manchester.
 1892, Apr. 9. STEWART, JAMES, 28, Crozier Street, Westminster Bridge Road.
 1892, July 9. STEWART, ROBERT TOMLINSON, Thorpe-le-Soken, Essex.
 1892, Dec. 17. STOREY, JOHN, 79, Premier Street, Liverpool.
 1892, June 25. SURTEES, RICHARD T., Bolam Low House, Belsay, Newcastle-upon-Tyne.
 1892, Apr. 9. SWEENEY, JOHN, 17, Brougham Street, Tranmere, Cheshire.
 1892, July 9. THOMAS, GEORGE, 57, Loudoun Square, Cardiff.
 1892, Dec. 17. THORNTON, RICHARD, Royal Albert Asylum, Lancaster.
 1892, Apr. 29. TREADGOLD, WILLIAM JOSEPH, 37, Wilfred Street, Derby.
 1892, June 11. TROW, SAMUEL, Sanitary Inspector, Otley.
 1892, Dec. 3. TUFFEE, WILLIAM, Jun., 50, Parrock St., Gravesend.
 1892, Dec. 3. WADMORE, ALICE, 15, Fairfax Road, South Hampstead.
 1892, Dec. 3. WAKE, RICHARD, 619, Wandsworth Road, Clapham.
 1892, Dec. 17. WALKER, ALLAN, 2, York Place, York Street, Wakefield.
 1892, Dec. 3. WALKER, JAMES EDWARD, Vine Cottage, Hunstanton.
 1892, June 11. WALKER, WALTER BURGESS, 3, Leamington Terrace, New Wortley, Leeds.
 1892, Dec. 3. WALLIS, WILLIAM, 13, Gilbert Road, Kennington.
 1892, Dec. 3. WANE, WILLIAM, 7, College Place, Crowndale Road, Camden Town.
 1892, June 11. WARD, WALTER, 275, Bowling Old Lane, Bradford.
 1892, Dec. 3. WARE, HENRY WICKS, Waterworks, Maidstone.
 1892, Mar. 5. WARRAN, WILLIAM ERNEST, 5, Broad Park Terrace, Tavistock.
 1892, July 9. WARREN, THOMAS WILLIAM, 17, Rawden Place, Cardiff.
 1892, Dec. 3. WARREN, WILLIAM THOMAS, 23, Sturry Street, Poplar, E.
 1892, June 25. WAUGH, MATTHEW, Scotch Arms Inn, Haydon Bridge, Northumberland.

- 1892, Apr. 9. WELLS, WILLIAM JAMES, Kingswood, Reigate.
 1892, June 25. WHIELDON, EDMUND, Blakeley Farm, Blythe Bridge, Stoke-on-Trent.
 1892, June 11. WHINFIELD, THOMAS HOOD, Town Hall, Salford.
 1892, July 9. WHITE, FRANK, 38, Maple Street, Northampton.
 1892, Apr. 9. WHITE, WILLIAM, 27, Harvey Street, Folkestone.
 1892, June 11. WHITELEY, THOMAS, Town Hall, Huddersfield.
 1892, Mar. 5. WILSON, JOHN ALLEN, 18, Rodney Terrace, Cheltenham.
 1892, July 9. WINDSOR, WILLIAM, 13, Sutcliffe Street, Liverpool, E.
 1892, Apr. 9. WINBORROW, EDWIN JAMES, Town Hall, Westminster.
 1892, Apr. 9. WOLTERS, WILLIAM JOHN, 62, Huntingdon Street, Barnsbury, N.
 1892, Apr. 9. WOOD, CHARLES FREDERICK, 1, Cedar Villas, West Hampstead.
 1892, June 11. WOODHEAD, FLETCHER, 13, Norman Street, Burnley.
 1892, Dec. 3. WOOLNOUGH, TOM, Northholme, Aberdeen Road, Highbury.
 1892, June 11. WORMALD, JOHN, Riding Head, Luddenden, *via* Manchester.
 1892, Dec. 3. WRIGHT, JOHN HENRY, Junr., 54, Caledonian Rd., N.
 1892, June 25. YOUNG, JAMES, West Boldon, Newcastle-upon-Tyne.
 1892, June 25. YOUNG, THOMAS, 17, California, Winlaton, Blaydon-on-Tyne.

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. Botton.	1889. Worcester.	1890. Brighton.	1892. Portsmouth.
Number of Exhibitors	117	116	189	106	110	126	134	135	130	112	108	108	156
Number of Exhibits	294	319	710	500	600	750	900	1,000	900	800	800	1,000	2,090
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	83*	63*
Number of Exhibits deferred for further trial ... ..	.....	7	52	30	57	44	39	119	42	46	67	67	33

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

CONGRESS & EXHIBITION, PORTSMOUTH, SEPTEMBER, 1892.

JUDGES' REPORT OF MEDALS AND CERTIFICATES AWARDED.

DIVISION A.

SCIENCE IN RELATION TO HYGIENE.

Medals.

R. & J. BECK.
Improved Continental Microscope.
J. SWIFT & SONS.
Microscope Lamp.

DIVISION C.

CONSTRUCTION AND SANITARY APPARATUS.

CLASS I.

BUILDING MATERIALS, CONSTRUCTION & MACHINERY.

Medals.

J. GREENALL.
Greenall's Steam Washer.

CLASS II.

WATER SUPPLY AND SEWERAGE.

Medals.

BROAD & CO.
Enamelled Fireclay Water Cisterns.
MOULE'S EARTH CLOSET CO.
Moule's Earth Closet.

CLASS III.

HEATING, LIGHTING, AND VENTILATION.

Medals.

CROMPTON & CO.
Apparatus for Cooking by Electricity.
CROMPTON & CO.
Domestic Motor.

DIVISION D.

PERSONAL AND DOMESTIC HYGIENE.

Medals.

- BLONDEAU ET CIE.
Vinolia Toilet Soap.
- SUTTON & SONS.
Vegetable Seeds.
- WASHINGTON LYON.
Steam Disinfector.
- MESSRS. CALVERT & Co.
Pure Carbolic Acid.
- MORRIS TUBE AMMUNITION Co.
Morris Circulating Principle of Water Filtration.
- NORTH WILTS DAIRY COMPANY.
Alpha Cream Separator.
- NATHANIEL BLETCHELY.
Anatomical Boots.
- BRAND & Co.
Beef Essences.
- BROWN & POLSON.
Corn Flour.
- BURROUGHS, WELLCOME & Co.
Travelling Medicine Chest.

DIVISION A.

SCIENCE IN RELATION TO HYGIENE.

Certificates of Merit.

- J. DAVIS & Co.
American Forecast Barometer.
- J. SWIFT & SONS.
Grove's Modification of Williams' Microtome.

DIVISION B.

HYGIENE OF SPECIAL CLASSES,
TRADES, AND PROFESSIONS.

Certificates.

- C. GROOM.
A Square Tent for Garden.
- HUMPHREYS, LIMITED.
Iron Temporary Hospital Hut.
- PORTSMOUTH WATER FITTINGS Co.
Water Curtain for Public Places of Entertainment.
- ALFRED CARTER.
Model of Window with Removable Sashes to facilitate cleaning.

DIVISION C.

CONSTRUCTION AND SANITARY
APPARATUS.

CLASS I.

BUILDING MATERIALS, CONSTRUCTION & MACHINERY.

Certificates.

- S. S. WAY.
Terra-Cotta Door and Window Jambs.

CLASS II.

WATER SUPPLY AND SEWERAGE.

Certificates.

- PORTSMOUTH WATER FITTINGS Co.
Sir Wm. Thomson's (Lord Kelvin's) Water Tap.
- PORTSMOUTH WATER FITTINGS Co.
Shanks' Enamelled Iron Bath.
- PORTSMOUTH WATER FITTINGS Co.
Shanks' Independent Spray and Plunge Bath.
- BROAD & Co.
White Enamelled Fireclay Sink.
- BROAD & Co.
White Enamelled Straight and Curved Channels for Inspection
Chambers to Drains.
- THE TROTT VALVE & ENGINEERING Co.
Removable Valves for Hot and Cold Water Cocks.
- THE TROTT VALVE & ENGINEERING Co.
Combined Bath Valve, with Interlocking Gear for Waste.
- GEO. JENNINGS.
Cabinet Lavatory Stand.
- MILNE, SONS & MACFIE.
Brass Siphon Traps.
- COLEMAN & MORTON.
Improved Tumbler Sanitary Cart.
- WATER CARRIAGE ENGINEERING Co.
Flush Indicator.

- W. CLEMENS ABELL & Co.
Balanced Water Cart.
- MILNE, SONS & MACFIE.
Standing Waste and Overflow, with Trapping Bend for Bath.
- WATER CARRIAGE ENGINEERING Co.
Automatic Flushing Siphon, with Tipping Bucket at Outlet.
- E. R. PALMER.
Palmer's Automatic Flushing Siphon.
- GEO. JENNINGS.
Joint for Connecting Closet Basin to Metal Pipe.
- J. TYLOR & SONS.
Warwick Combined Slop Sink and W.C. with Lead Trap.
- J. TYLOR & SONS.
Lavatory with Lifting Standing Waste Outlet.
- PORTSMOUTH WATER FITTINGS Co.
Shanks' "Citizen" Combined W.C. and Slop Sink with P Trap.
- JOHN JONES.
Condensation Seal Cover for Bottom of Manholes.
- J. TYLOR & SONS.
Silent Arrangement for "Tower" Waste Preventer.
- JOHN KNOWLES & Co.
The "Presto" Seat Action Siphon Waste Preventing Cistern.
- PORTSMOUTH WATER FITTINGS Co.
Knight's Demonstration Model Showing Soil Pipe and Traps.
- PORTSMOUTH WATER FITTINGS Co.
Tyndale's Rock Concrete Manholes for Sewers and Drains.
- PORTSMOUTH WATER FITTINGS Co.
Trident Hopper Water Closet with P Trap.
- PORTSMOUTH WATER FITTINGS Co.
Bayonet Joint for Connecting Closet Basin to Metal Pipe.
- PORTSMOUTH WATER FITTINGS Co.
Shanks' Reliable Water Waste Preventing Cistern.
- JOHN JONES.
Bag Drain and Pipe Stopper.
- JOHN JONES.
Expanding Screw Drain and Pipe Stopper.
- J. CHADWICK.
Self-adjusting Tent Pole.
- SAMUEL GROSSMITH.
The "Climax" Automatic Flushing Siphon.

CLASS III.

HEATING, LIGHTING AND VENTILATION.

Certificates.

- EAGLE RANGE & FOUNDRY Co.
No. 35 Eagle Regulator, for Regulating Draught to Eagle Open Fire-grate.
- EAGLE RANGE & FOUNDRY Co.
Indicating Damper to Eagle Range.
- W. SUGG & Co.
"Westminster" Gas Cooking Stove, with Bunsen Burner.
- PARKHOUSE IRON Co.
"Grecian" Kitchen Range.
- PARKHOUSE IRON Co.
Dow's Kitchen Range.
- PARKHOUSE IRON Co.
Dublin Kitchen Range.
- DAVIS GAS STOVE Co.
Thermo Hygienic Gas Stove.
- T. BAILEY, JUNR.
Cyclone Geyser.
- H. SULLEY.
Noiseless Safety Pavement.
- C. KITE & Co.
Improved Box Inlet Ventilator.
- C. KITE & Co.
Lock Valve Inlet Ventilator.

DIVISION D.

PERSONAL AND DOMESTIC HYGIENE.

Certificates.

- BURROUGHS, WELLCOME & Co.
Malt Extracts.
- J. J. THORNTON & Co.
Men's India Rubber Boots, Ventilated and Lined with Felt.
- J. J. THORNTON & Co.
Down-covered Air Cushions.
- MESSRS. MACKAY, MACKAY & Co.
Oxychlorogene.

THE SANITAS CO.
Kingsett's Mercuric Bactericide.

T. TYRER & CO.
Preparations of Thiocamph.

BERKEFELD FILTER CO.
The Berkefeld Filter.

HOLDEN BROS.
Natureform Boots and Shoes for Children.

FRANCIS HY. KNIGHT, EUROPEAN DRESS CUTTING ASSOCIATION.
System of Hygienic Dress Cutting.

HERTS, SON & CO.
Hygienic Corsets.

E. CLARK & CO.
Coffee Extract.

JEYES' SANITARY COMPOUNDS COMPANY.
Jeyes' Fluid.

BUGLER & CO.
Disinfecting Sheet.

T. B. VERNON.
Ceres Automatic Letter and Card File Cabinet.

C. E. GITTENS, LIMITED.
Porcelain Screw Tap for Filter.

CADBURY BROS.
Cocoa Essence.

ARCTIC FREEZER CO.
Arctic Freezer.

The Judges desire to refer to the Specimens, displayed on the Walls of the Exhibition, of the Record Plans of the Sewerage and House Drainage of the Borough of Portsmouth, and to congratulate the Town Council on the way in which these Plans have been kept up, and on the possession of such a valuable record, not only of the Sewerage, but of the details of some thousands of House Drains.

Signed,

ERNEST TURNER, F.R.I.B.A., *Chairman.*
E. WHITE WALLIS, F.S.S., *Secretary.*

October, 1892.

LIST OF EXHIBITS

SELECTED BY THE JUDGES FOR FURTHER PRACTICAL TRIAL.

Shone's Hydro-Pneumatic Ejector.
Hughes & Lancaster.

Jackson's Grates and Stoves for Anthracite.
Gwaun Cae Gurwen Colliery Co.

Street Sweeping Machine with Scraper.
W. Clemens Abell & Co.

Hydraulic Cement from Sewage Sludge and Waste Gas Lime.
Arthur Angell.

Indurated Wood Fibre Tanks and Baths.
Milne, Son & Macfie.

Double Action Road Sweeping Machine.
Coleman & Morton.

Tea.
Mazawattee Ceylon Tea Co.

Mineral Waters.
C. Mumby & Co.

Mineral Waters.
C. F. Perkins.

Rain Water Separator.
Chas. G. Roberts.

Non-concussive and Self-closing Valve.
Trott Valve Engineering Co.

Outlet and Inlet Ventilator for Torpedo Vessels.
Wm. Sugg & Co.

System of Ventilating Buildings.
Wm. Sugg & Co.

Sun Knife Cleaner.
Sun Knife Cleaner Co.

Eureka Aerated Flour.
Coombe's Eureka Flour Co.

Prof. Wolpert's Smoke Exhauster.
H. Heim.

Ventilators (except Bracket).
Wheeler & Son.

D.D. Ventilating Chimney Top.
John Jas. Downes.

- Ventilating Cowl.*
C. Kite & Co.
- Leggott & Marsh's Smoke Consuming Fire.*
Economic Smokeless Fire Co.
- Closet of the Century.*
Geo. Jennings.
- Sykes' Screw Joint for Earthenware Pipes.*
The Albion Clay Co.
- Paragon Joint for Earthenware Pipes.*
The Albion Clay Co.
- Silent Water Waste Preventer.*
D. T. Bostel & Sons.
- Quick-filling Siphon Action Cistern with after Flush.*
Geo. Jennings.
- Non-pneumatic Peckham Waste Preventing Cistern.*
Milton Syer.
- Roof Ridge Ventilator.*
C. Kite & Co.
- Under-Roof Ventilator.*
C. Kite & Co.
- Exhaust Ventilator.*
C. Kite & Co.
- Downcast Inlet Ventilator.*
C. Kite & Co.
- New Simplex Water-jet Air Propeller.*
C. Kite & Co.
- The Volume Fan.*
Wheeler & Son.
- Electric Motor for Ventilating Purposes.*
Mackey, Mackey & Co.
- Simmordell's Updraught Ventilator.*
Wm. Sugg & Co.
- Injector Cowl.*
Wm. Sugg & Co.
- Mosquera Julia Food.*
Mosquera Julia Food Co.
- Scott's Midlothian Oat Flour.*
Andrew Scott & J. C. Lauder.
- Blackman Ventilating Fan.*
Blackman Ventilating Co.

CONTRIBUTIONS TO LIBRARY DURING 1892.

In addition to the works enumerated in the following list, valuable donations of Foreign Reports and other official publications have been received from the International Congress of Hygiene and Demography, London, Prof. W. H. Corfield, M.A., M.D., and G. J. Symons, F.R.S.

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

ACADEMIES, ASSOCIATIONS, COLLEGES, SOCIETIES, &c. ACADEMIES (AMERICAN).

Concord. *American Public Health Association.* Public Health Papers and Reports, Vol. XVII., 1891. 321 p. 8vo. Concord, 1892.
The Association.

Manitoba, *Historical and Scientific Society.* Annual Reports for the years 1890, 1891, and 1892. 10 p., 8vo. Winnipeg, 1891.
The Society.

— *Historical and Scientific Society.* Older Geology of the Red River and Assiniboine Valleys. Paper by G. Bryce, LL.D., 8 p., 8vo. Winnipeg, 1891.
The Society.

— *Historical and Scientific Society.* An Account of the affair of Sevenoaks; the circumstances which led up to it; the Events and Conflict. 38 p., 8vo. Winnipeg, 1891.
The Society.

— *Historical and Scientific Society.* The First Recorder of Rupert's Land. A Paper read before the Society on May 4th, 1890, by G. Bryce, LL.D. 5 p., 8vo.
The Society.

— *Historical and Scientific Society.* Surface Geology of the Red River and Assiniboine Valleys. A Paper read before the Society on January 22nd, 1891, by G. Bryce, LL.D. 7 p., 8vo.
The Society.

Massachusetts, *Institute of Technology.* Technology Quarterly and Proceedings of the Society of Arts, 1892. 8vo. Boston, 1892.
The Institute.

Philadelphia. *College of Physicians.* Transactions, Vol. XIII., Third Series. 179 p., 8vo. Philadelphia, 1891.
The College.

- Toronto, Canadian Institute.** Annual Archaeological Report (Session 1891), being an Appendix to the Report of the Minister of Education, Ontario. 101 p., Svo. Toronto, 1891. *The Institute.*
 — *Canadian Institute.* Transactions, 1892, Vol. II., Part II., and Vol. III., Part I. 363 p., Svo. Toronto, 1892. *The Institute.*

ACADEMIES (AUSTRALIAN).

- New South Wales. Australian Museum.** Report of Trustees for the year 1890. 33 p., f. cap. 1891.
 — *Royal Society of.* Journal and Proceedings, Vol. XXV., 1891. 345 p., Svo. Sydney, 1892. *The Society.*
 — *Department of Public Instruction.* Report of the Curator of the Technological Museum for 1890. 52 p., f. cap. Sydney, 1892.

ACADEMIES (BRITISH).

- Chatham. Royal Engineers' Society.** Professional Papers of the Corps of Royal Engineers. Occasional Papers, Vol. XVII. 1891. 238 p. (plates), Svo. Chatham, 1892. *Royal Engineers' Institute.*
Glasgow. Institution of Engineers and Shipbuilders in Scotland. Transactions, Vol. XXXV., 1891—92. 388 p., Svo. (plates). Glasgow, 1892. *The Institute.*
London. Anthropological Institute. Journal, 1875-82, 1884, 1886-90. *Sir Douglas Galton.*
 — *Architects' Society of.* Proceedings, 1892. Svo. London. *The Society.*
 — *Chemical Society, Journal of,* 1875-87 and 1889. *Sir Douglas Galton.*
 — *City of London College.* Calendar for 1892—93. 191 p., Svo. London, 1892. *The College.*
 — *Engineers' Society of.* Transactions for 1891. 243 p., Svo. London, 1892. *The Society.*
 — *Incorporated Association of Municipal and County Engineers.* Proceedings, Vol. XVIII. 441 p., Svo. London, 1892. *The Association.*
 — *Medical Society of.* Transactions, Vol. XV. 483 p. London, 1892. *The Society.*
 — *Society of Medical Officers of Health.* Transactions. Session, 1883—6. 135 p., Svo. London, 1886. *Miss Greenhow.*
 — *Royal Botanic Society.* Quarterly Record for 1880 to 1891. 4 Vols. *The Society.*
 — *Royal College of Surgeons of England.* Calendar for 1892. 397 p., Svo. London, 1892. *The College.*
 — *Royal Institute of British Architects.* Transactions, Vol. VIII., 1892. 434 p., 4to. London, 1892. *The Institute.*
 — *Royal Institution of Great Britain.* Proceedings, Vol. XIII., Part II. 250 p., Svo. London, 1892. *The Royal Institution.*
 — *Royal Statistical Society.* Journal, Vol. LV. p., Svo. London. *The Society.*

- London. St. Thomas's Hospital.** Reports, New Series, Vol. XX. 520 p., Svo. London, 1892. *The Hospital.*
 — *The Surveyors' Institution.* Transactions, Session 1891—92. Svo. London. *The Institution.*
 — *University College.* Calendar, Session 1892—93. 410 p., Svo. London, 1892. *The College.*
Newcastle-on-Tyne. North of England Institute of Mining and Mechanical Engineers. Transactions, 1892. *The Institute.*

ACADEMIES (CONTINENTAL).

- Amsterdam. Koninklijke Akademie Van Wetenschappen.** Verslagen en Mededeelingen, der Vol. VIII. 627 p., Svo. Amsterdam, 1891. *Royal Academy of Sciences.*
Rome. R. Università. Annali dell' Istituto d' Igiene Sperimentale. Vol. I. Svo. Roma, 1892. *Prof. Angelo Celli.*

- Abney's Chemistry of Building Materials.** Notes on the Third Edition, revised by Capt. S. M. Maycock, R.E. 155 p., Svo. Chatham, 1888. *Purchased.*
Acland, Dr. H. N. Memoir on the Cholera at Oxford in the year 1854, with Considerations suggested by the Epidemic. 172 p. (maps). London, 1856. *Miss Greenhow.*
Army Hospital Services Enquiry Committee. Report and Minutes of Evidence, Appendix and Index. 771 p., f. cap. London, 1883. *Miss Greenhow.*
Bidlake, W. H. Dry Rot in Timber. 24 p., Svo. London, 1889. *Purchased.*
Blair, Dr. J. A. The Organic Analysis of Potable Waters. 120 p., Svo. London, 1891. *The Author.*
Board of Agriculture. Agricultural Returns of Great Britain, with abstract returns for the United Kingdom, British Possessions and Foreign Countries, 1891. 187 p., Svo. London, 1891. *The Board.*
 — Agricultural Produce Statistics of Great Britain, showing the estimated total produce and average yield per acre of the principal crops, with abstract returns for the United Kingdom, 1891. 33 p., Svo. London, 1892. *The Board.*
 — Agricultural Returns for 1892. 37 p., Svo. London, 1892. *The Board.*
 — Annual Report of the Director of the Veterinary Department for the year 1891, with an Appendix. 205 p., Svo. London, 1892. *Prof. G. T. Brown.*
Bucharest. Raport General asupra Igieniei Publice si asupra Serviciului Sanitar al Capitalei per anul 1891. 136 p., Svo. Bucharest, 1892. *Dr. J. Felix.*
Canada. Inland Revenue Department, Laboratory of. Bulletins Nos. 1 to 30, 1887—1892. *Laboratory of the Inland Revenue.*

- Canada. *Inland Revenue Department, Laboratory of.* Act respecting Adulteration of Food, Drugs, and Agricultural Fertilizers, 1886, and Amending Acts. *Laboratory of the Inland Revenue.*
- *Inland Revenue Department, Laboratory of.* Act respecting Agricultural Fertilizers, 1890. *Laboratory of the Inland Revenue.*
- Cattle Plague. Third Report of the Commissioners appointed to inquire into the Origin and Nature, &c., of, with an Appendix. 244 p., f. cap. London, 1866. *Miss Greenhow.*
- Cholera Epidemic. Report on the, as it has appeared in the Territories subject to the Presidency of Fort St. George (Madras). 212 p., 8vo. London, 1849. *Miss Greenhow.*
- A Report on the Outbreak in Brecon in 1854, by Dr. Lucas Prestwood. 27 p., 8vo. London, 1855. *Miss Greenhow.*
- of 1854. Report on, as it prevailed in the City of London, by J. Simon. 19 p., 8vo. London, 1854. *Miss Greenhow.*
- Cholera Epidemics of London. Report on the last two, as affected by the consumption of Impure Water. 35 p., 8vo. London, 1856. *Miss Greenhow.*
- Cholera. Report of the Commissioners appointed to inquire into the causes which have led to and have aggravated the late Outbreak of Cholera in the towns of Newcastle-upon-Tyne, Gateshead, and Tynemouth. 580 p., f. cap. London, 1854. *Miss Greenhow.*
- General Board of Health Reports, 1848—49. 500 p., 8vo. London, 1848—49. *Miss Greenhow.*
- Report on the Mortality of, in England, 1848—49. 300 p., 8vo. London, 1852. *Miss Greenhow.*
- Returns in Great Britain in the year 1832 (manuscript). *Miss Greenhow.*
- in Tynemouth in 1831—2, 1848—9, and 1853, by Dr. E. Headlam Greenhow. 26 p., 8vo. Excerpt, Journal of Public Health, June, 1855. *Miss Greenhow.*
- Report on the Outbreak in the Parish of St. James, Westminster, during the Autumn of 1854. 171 p., 8vo. (maps and diagrams). London, 1855. *Miss Greenhow.*
- Quarantine and the Plague, being a Summary of the Report on these subjects recently addressed to the Royal Academy of Medicine in France, with introductory observations, extracts from Parliamentary Correspondence, and Notes, by Dr. Gavin Milroy. 71 p., 8vo. London, 1846. *Miss Greenhow.*
- The Cholera not to be arrested by Quarantine; a brief historical sketch of the great Epidemic of 1817 and its invasions of Europe in 1831—2 and 1847, with practical remarks on the treatment, preventive and curative, of the disease. 51 p., 8vo. London, 1847. *Miss Greenhow.*
- Ireland. Report of the Commissioners of Health on the Epidemics of 1846 and 1850. 79 p., 8vo. Dublin, 1852. *Miss Greenhow.*
- Clarke, J. W. Clarke's Tables (for pocket). London, 1891. *The Author.*

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

	Year.	
Aberdeen, City of ..	February, 1892.	<i>Dr. M. Hay.</i>
Aberdeen	"	"
Acton Local Board ..	1891.	<i>W. B. Prowse.</i>
Birkenhead	"	<i>Francis Vacher.</i>
Birmingham	"	<i>Dr. A. Hill.</i>
Blackpool	"	<i>Dr. A. J. Anderson.</i>
Bolton	"	<i>Dr. F. E. Adams.</i>
Calcutta	"	<i>Dr. W. J. Simpson.</i>
Chelmsford	"	<i>Dr. J. C. Thresh.</i>
Cornwall	"	<i>S. Trevail.</i>
Cromer Urban Sanitary District ..	"	<i>S. T. Taylor.</i>
Dumbarton, County Council for	"	<i>Dr. J. C. McVail.</i>
Dublin	"	<i>Sir Charles Cameron.</i>
Erpingham Union ..	"	<i>S. T. Taylor.</i>
Essex, County of ..	"	<i>Dr. J. C. Thresh.</i>
Hastings	"	<i>G. R. Meadows.</i>

MEDICAL OFFICERS', &c., REPORT.—Continued.

Kensington	1891.	<i>Dr. T. O. Dudfield.</i>
Kidderminster	1886—92	<i>J. T. Cowderoy.</i>
Lambeth	1890.	<i>Dr. H. W. Verdon.</i>
Liverpool Port Sanitary Authority	1891.	<i>Dr. J. Stopford Taylor.</i>
Liverpool	"	"
Merthyr Tydfil	"	<i>T. J. Dyke.</i>
Paddington, 1863, 1864, half years ending 1865, 1866, ditto monthly reports during 1863 (imperfect)		<i>Prof. W. H. Corfield.</i>
River Tyne Port Sanitary Authority	1891.	<i>Dr. H. E. Armstrong.</i>
Scarborough (Rural)	"	<i>Dr. R. Cuff.</i>
Stirling County Council.	"	<i>Dr. J. C. McVail.</i>
St. Faith's Union	"	<i>S. T. Taylor.</i>
St. George's, Hanover Square (Analyst's)	"	<i>C. E. Cassal.</i>
St. Pancras. Report upon the outbreak of Enteric Fever at the Foundling Hospital		<i>Dr. J. F. J. Sykes.</i>
Torquay	1891.	<i>P. Q. Karceck.</i>
Wandsworth	"	<i>The Board.</i>
Warwick, County of	"	<i>Prof. A. B. Hill.</i>
Watford	"	<i>Dr. A. T. Brett.</i>
West Riding County Council	1890.	<i>Dr. Whitelegge.</i>
West Sussex	1891.	<i>Dr. C. Kelly.</i>
Whitechapel District.	"	<i>Dr. Joseph Loane.</i>
Wolverhampton	"	<i>E. J. Franks.</i>
Wolverhampton	1892.	<i>Dr. H. Malet.</i>

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- Di alcune differenze esistenti fra gli spirilli del colera isolati in diverse epidemie. 12 p., 4to. 1892. *Ministero dell' Interno.*
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PERIODICALS.

WEEKLY.

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Builder.
Contract Journal.
County Council Times.
Illustrated Carpenter and Builder
Industries.
Invention.

Journal d'Hygiène.
Journal Society of Arts.
Local Government Chronicle.
Local Government Journal.
Nursing Record.
Surveyor.

FORTNIGHTLY.

Sanitary Record.

MONTHLY.

Engineering Review.
Health Record, Dublin.
Hygiene.
Ironmonger.
Journal of the Royal Institute of
British Architects.

Meteorological Record.
Plumber and Decorator.
Practitioner.
Public Health.
Sanitarian.
Sci-i-Kwai Medical Journal.

QUARTERLY.

Deutsche Vierteljahrsschrift für öffentliche Gesundheitspflege.

LECTURES & MEETINGS FOR 1893.

JANUARY.

- 2 M. Exhibition Committee.
- 7 S. Lecture to Sanitary Officers, King's
Lynn, 2 p.m.
- 11 W. Finance Committee, 4 p.m.; Coun-
cil, 5 p.m.
- 14 S. Lecture to Sanitary Officers, King's
Lynn, 2 p.m.
- 19 Th. Examination Committee.
- 21 S. Lecture to Sanitary Officers, King's
Lynn, at 2 p.m.
- 23 M. Museum Committee.
- 27 F. } Examination, Worcester.
- 28 S. }
- 28 S. Lecture to Sanitary Officers, King's
Lynn, 2 p.m.
- 31 Tu. Lecture to Sanitary Officers, Lon-
don, 8 p.m.

FEBRUARY.

- 3 F. Lecture to Sanitary Officers, Lon-
don, 8 p.m.
- 4 S. Lecture to Sanitary Officers, King's
Lynn, 2 p.m.
- 6 M. Exhibition Committee.
- 7 Tu. Lecture to Sanitary Officers, Lon-
don, 8 p.m.
- 8 W. Finance Committee, 4 p.m.; Coun-
cil, 5 p.m.; Sessional Meeting at
8 p.m.
- 10 F. Lecture to Sanitary Officers, Lon-
don, 8 p.m.
- 11 S. Lecture to Sanitary Officers, King's
Lynn, 2 p.m.
- 11 S. Visit of the Students to South
Norwood Irrigation Farm, 3 p.m.
- 14 Tu. Lecture to Sanitary Officers, Lon-
don, 8 p.m.
- 15 W. Visit of the Students to an In-
spection in the Parish of Chel-
sea, 2 p.m.
- 17 F. Lecture to Sanitary Officers, Lon-
don, 8 p.m.
- 18 S. Lecture to Sanitary Officers, King's
Lynn, 2 p.m.
- 18 S. Visit of the Students to Express
Dairy Company's Establishment
at Heath Street, Hampstead,
3 p.m.
- 21 Tu. Lecture to Sanitary Officers, Lon-
don, 8 p.m.

FEBRUARY—(Continued).

- 22 W. Visit of the Students to an In-
spection in the Parish of St.
George's, Hanover Sq., 2 p.m.
- 24 F. Lecture to Sanitary Officers, Lon-
don, 8 p.m.
- 25 S. Lecture to Sanitary Officers, King's
Lynn, 2 p.m.
- 25 S. Visit of the Students to East
London Water Works, Lea
Bridge, 3 p.m.
- 25 S. Lecture to Sanitary Officers, Exe-
ter, 3 p.m.
- 27 M. Museum Committee.
- 28 Tu. Lecture to Sanitary Officers, Lon-
don, 8 p.m.

MARCH.

- 1 W. Visit of the Students to an In-
spection in the Parish of Chel-
sea, 2 p.m.
- 3 F. Lecture to Sanitary Officers, Lon-
don, 8 p.m.
- 4 S. Lecture to Sanitary Officers, King's
Lynn, 2 p.m.
- 4 S. Lecture to Sanitary Officers, Exe-
ter, 3 p.m.
- 4 S. Visit of the Students to Leyton
Sewage Works, 3 p.m.
- 6 M. Exhibition Committee.
- 7 Tu. Lecture to Ladies, 3 p.m.
- 7 Tu. Lecture to Sanitary Officers, Lon-
don, 8 p.m.
- 8 W. Finance Committee, 3.30 p.m.
- 8 W. Council Meeting, 5 p.m.
- 8 W. Sessional Meeting, 8 p.m.
- 10 F. Lecture to Ladies, 3 p.m.
- 10 F. Lecture to Sanitary Officers, Lon-
don, 8 p.m.
- 11 S. Visit of the Students to the Shone
System of Drainage, Houses of
Parliament, 11.45 a.m.
- 11 S. Lecture to Sanitary Officers, King's
Lynn, 2 p.m.
- 11 S. Lecture to Sanitary Officers, Exe-
ter, 3 p.m.
- 14 Tu. Lecture to Ladies, 3 p.m.
- 14 Tu. Lecture to Sanitary Officers, Lon-
don, 8 p.m.
- 15 W. Visit of the Students to the
Disinfecting Station, Apparatus,
&c., St. Pancras, 3.30 p.m.

MARCH—(Continued).

- 17 F. Lecture to Ladies, 3 p.m.
 17 F. Lecture to Sanitary Officers, London, 8 p.m.
 18 S. Lecture to Sanitary Officers, King's Lynn, 2 p.m.
 18 S. Lecture to Sanitary Officers, Exeter, 3 p.m.
 18 S. Lecture to Sanitary Officers, Dublin, 3 p.m.
 21 Tu. Lecture to Sanitary Officers, London, 8 p.m.
 22 W. Visit of the Students to an Inspection in the Parish of St. George's, Hanover Sq., 2 p.m.
 24 F. Lecture to Sanitary Officers, London, 8 p.m.
 25 S. Lecture to Sanitary Officers, King's Lynn, 2 p.m.
 25 S. Lecture to Sanitary Officers, Exeter, 3 p.m.
 25 S. Lecture to Sanitary Officers, Dublin, 3 p.m.
 25 S. Visit of the Students to the London Subways, 3 p.m.
 27 M. Museum Committee.
 28 Tu. Lecture to Sanitary Officers, London, 8 p.m.
 29 W. Visit of the Students to the Disinfecting Station, Apparatus, &c., St. Pancras, 3.30 p.m.

APRIL.

- 1 S. Lecture to Sanitary Officers, Exeter, 3 p.m.
 1 S. Lecture to Sanitary Officers, Dublin, 3 p.m.
 1 S. Visit of the Students to the Express Dairy Company's Farm, Finchley.
 3 M. Exhibition Committee.
 7 F. Examination Committee.
 8 S. Lecture to Sanitary Officers, Exeter, 3 p.m.
 8 S. Lecture to Sanitary Officers, Dublin, 3 p.m.
 12 W. Finance Committee, 4 p.m.; Council, 5 p.m.; Sessional Meeting, 8 p.m.
 14 F. Examination, London.
 15 S. Examination, London.
 15 S. Lecture to Sanitary Officers, Exeter, 3 p.m.
 15 S. Lecture to Sanitary Officers, Dublin, 3 p.m.
 22 S. Lecture to Sanitary Officers, Exeter, 3 p.m.
 22 S. Lecture to Sanitary Officers, Dublin, 3 p.m.
 24 M. Museum Committee.
 28 F. Examination, King's Lynn.

APRIL—(Continued).

- 29 S. Examination, King's Lynn.
 29 S. Lecture to Sanitary Officers, Exeter, 3 p.m.
 29 S. Lecture to Sanitary Officers, Dublin, 3 p.m.

MAY.

- 1 M. Exhibition Committee.
 6 S. Lecture to Sanitary Officers, Exeter, 3 p.m.
 6 S. Lecture to Sanitary Officers, Dublin, 3 p.m.
 10 W. Finance Committee, 4 p.m.; Council, 5 p.m.
 13 S. Lecture to Sanitary Officers, Exeter, 3 p.m.
 13 S. Lecture to Sanitary Officers, Dublin, 3 p.m.
 19 F. Examination Committee.
 20 S. Lecture to Sanitary Officers, Dublin, 3 p.m.
 22 M. Museum Committee.
 26 F. Examination, Exeter.
 27 S. Examination, Exeter.
 27 S. Lecture to Sanitary Officers, Dublin, 3 p.m.

JUNE.

- 3 S. Lecture to Sanitary Officers, Dublin, 3 p.m.
 5 M. Exhibition Committee.
 9 F. Examination for Surveyors, London.
 10 S. Examination for Surveyors, London.
 10 S. Lecture to Sanitary Officers, Dublin, 3 p.m.
 14 W. Finance Committee, 4 p.m.; Council, 5 p.m.
 23 F. Examination, Dublin.
 24 S. Examination, Dublin.
 26 M. Museum Committee.
 30 F. Examination Committee.

JULY.

- 3 M. Exhibition Committee.
 7 F. Examination, Leeds.
 8 S. Examination, Leeds.
 12 W. Finance Committee, 4 p.m.; Council, 5 p.m.
 17 M. Congress Committee.
 24 M. Museum Committee.
 28 F. Examination, Cardiff.
 29 S. Examination, Cardiff.

OCTOBER.

- 2 M. Exhibition Committee.
 3 Tu. Lecture to Sanitary Officers, London, 8 p.m.

OCTOBER—(Continued).

- 6 F. Lecture to Sanitary Officers, London, 8 p.m.
 10 Tu. Lecture to Sanitary Officers, London, 8 p.m.
 11 W. Finance Committee, 4 p.m.; Council, 5 p.m.
 13 F. Lecture to Sanitary Officers, London, 8 p.m.
 16 M. Congress Committee.
 17 Tu. Lecture to Sanitary Officers, London, 8 p.m.
 20 F. Lecture to Sanitary Officers, London, 8 p.m.
 23 M. Museum Committee.
 24 Tu. Lecture to Sanitary Officers, London, 8 p.m.
 27 F. Lecture to Sanitary Officers, London, 8 p.m.
 31 Tu. Lecture to Sanitary Officers, London, 8 p.m.

NOVEMBER.

- 3 F. Examination Committee.
 3 F. Lecture to Sanitary Officers, London, 8 p.m.
 6 M. Exhibition Committee.
 7 Tu. Lecture to Sanitary Officers, London, 8 p.m.

NOVEMBER—(Continued).

- 8 W. Finance Committee, 4 p.m.; Council, 5 p.m.
 10 F. Examination, Newcastle-on-Tyne.
 10 F. Lecture to Sanitary Officers, London, 8 p.m.
 11 S. Examination, Newcastle-on-Tyne.
 14 Tu. Lecture to Sanitary Officers, London, 8 p.m.
 17 F. Lecture to Sanitary Officers, London, 8 p.m.
 21 Tu. Lecture to Sanitary Officers, London, 8 p.m.
 24 F. Examination Committee.
 24 F. Lecture to Sanitary Officers, London, 8 p.m.
 27 M. Museum Committee.
 28 Tu. Lecture to Sanitary Officers, London, 8 p.m.

DECEMBER.

- 1 F. Examination, London.
 2 S. Examination, London.
 4 M. Exhibition Committee.
 13 W. Finance Committee, 4 p.m.; Council, 5 p.m.
 15 F. Manchester Examination.
 16 S. Manchester Examination.
 18 M. Museum Committee.

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

Additions and Corrections to December 31st, 1892.

HON. FELLOWS, 26; FELLOWS, 146;
MEMBERS, 510; ASSOCIATES, 598.—TOTAL, 1280.

HONORARY FELLOWS.

AUSTRIA-HUNGARY.

- | Reg. No. | Date of Election. | Name |
|----------|-------------------|---|
| 13 | 1890. June. | VON GRUBER, Prof. Franz Ritter, 1, Tiefer Graben 3, Vienna. |
| 16 | 1890. June. | FODOR, Dr., Professor of Hygiene, Buda-Pesth. |

BELGIUM.

- | | | |
|----|-------------|--|
| 23 | 1890. June. | PUTZEYS, Dr. Felix, Professor of Hygiene at the University of Liège. |
|----|-------------|--|

EGYPT.

- | | | |
|----|------------|---|
| 30 | 1890. Dec. | GREENE, Dr. H. R., Pasha, late Chief of the Sanitary Department, Cairo. |
|----|------------|---|

FRANCE.

- | | | |
|----|-------------|---|
| 31 | 1892. Oct. | BECHMANN, M., Ingénieur en Chef des Ponts et Chaussées; Directeur des Service d'Assainissement de Paris; 9, Place de l'Hôtel-de-Ville, Paris. |
| 2 | 1890. June. | BROUARDEL, Dr. Paul, Prof. and Dean of the Faculty of Medicine, Paris. |
| 3 | 1890. June. | CORNIL, Dr. V., Senator, 19, Rue St. Guillaume, Paris. |
| 4 | 1890. June. | PASTEUR, Prof. Louis, 25, Rue Dutot, Paris. |
| 6 | 1890. June. | DE PIÉTRA SANTA, Dr. Prosper, Hon. Sec. of the French Society of Hygiene, 30, Rue du Dragon, Paris. |
| 7 | 1890. June. | VALIN, Dr. Émile, Professor of Hygiene, Director of the School of the Military Sanitary Service, Lyons. |
| 8 | 1890. June. | MARIÉ DAVY, Dr. H., Hon. President of the French Society of Hygiene. |

GERMANY.

- | | | |
|----|-------------|--|
| 9 | 1890. June. | HOBRECHT, Dr., Engineer, Berlin. |
| 10 | 1890. June. | VON HOFMANN, Prof. A. W., Professor of Chemistry, Berlin. |
| 11 | 1890. June. | KOCH, Dr., Director of the Hygienic Institute, Berlin. |
| 12 | 1890. June. | PETTENKOFER, Dr., Professor of Hygiene at the University of Munich. |
| 13 | 1890. June. | ROTH, Prof. Dr. W., Surgeon-General, 6, Kaizer Wilhelm Platz, Dresden. |
| 14 | 1890. June. | VIRCHOW, Dr. Rudolph, Professor of Pathology, Berlin. |

FELLOWS.

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HOLLAND.

- | Reg. No. | Date of Election. | Name |
|----------|-------------------|---|
| 22 | 1890. June. | DE MEYER, Dr. van Overbeek, Professor of Hygiene at the State University of Utrecht, Netherlands. |

ITALY.

- | | | |
|----|-------------|--|
| 18 | 1890. June. | BETOCCHI, Comte Alessandro, Prof., Civil Engineer, Ministry of Public Works, Rome. |
| 20 | 1890. June. | PACCHIOTTI, Dr. Giacinto, Professor of Hygiene, Turin. |

ROUMANIA.

- | | | |
|----|-------------|---|
| 22 | 1890. June. | FELIX, Dr. J., Professor of Hygiene, Bucharest. |
|----|-------------|---|

RUSSIA.

- | | | |
|----|-------------|--|
| 24 | 1890. June. | SEZOR, Comte de, Architect-in-chief, Ligue de Cadets 21, St. Petersburg. |
|----|-------------|--|

SWITZERLAND.

- | | | |
|----|-------------|--|
| 23 | 1890. June. | GUILLAUME, Dr., Director of the Federal Bureau of Statistics, Berne. |
|----|-------------|--|

TURKEY.

- | | | |
|----|-------------|--|
| 24 | 1890. June. | ZOÏROS, A., Pasha, Professor at the School of Medicine, Director of the Bacteriological Institute, Secretary-General of the Administration of Public Medicine and Hygiene, Constantinople. |
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UNITED STATES.

- | | | |
|----|-------------|--|
| 25 | 1890. June. | BILLINGS, Dr. John S., Washington, D.C. |
| 27 | 1890. June. | WALCOTT, Dr. Henry P., Cambridge, Massachusetts. |

FELLOWS (FELLOW SAN. INST.)

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

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|-----|------------|--|
| 13 | 1889. Dec. | ABEL, Sir Frederick, BART., K.C.B., F.R.S., Imperial Institute, Imperial Institute Road, S.W., (40, Cadogan Place, S.W.) |
| 51 | 1891. Dec. | ACLAND, Sir Henry W., K.C.B., M.D., D.C.L., F.R.S., Broad Street, Oxford. |
| 15 | 1888. Oct. | ADAMS, G. E. D'Arcy, M.D., D.P.H.CAMB., F.G.S., 1, Clifton Gardens, Maida Vale, W. |
| 16 | 1888. Oct. | ALBANY, H.R.H. THE DUCHESS OF, Claremont, Esher. |
| 316 | 1888. Oct. | ANGELL, Lewis, M.INST.C.E., F.K.C.LOND., Town Hall, Stratford, E. |
| 27 | 1890. Feb. | ANNINGSON, Bushell, M.A., M.D., Cambridge. |
| 14 | 1888. Oct. | ARCHER, John A., 79, Larkhall Rise, S.W. |

Reg. No.	Date of Election.	
²⁴ 1889.	Dec.	ARMISTEAD, William, M.B., M.O.H., <i>Shelford, Cambridge.</i>
¹⁵ 1889.	Dec.	BARRY, Charles, F.S.A., 1, <i>Victoria Street, S.W.</i>
³⁵³ 1888.	Dec.	BASS, Hamar Alfred, M.P., <i>Burton-on-Trent.</i>
³² 1888.	Oct.	BELL, MAJOR C. W., J.P., D.L., <i>Yechurst, East Grinstead, Sussex.</i>
³³ 1888.	Oct.	BIRCH, R. W. Peregrine, M.INST.C.E., 5, <i>Queen Anne's Gate, S.W.</i>
⁵⁰ 1889.	Dec.	BLIMFIELD, SIR A. W., M.A., F.R.I.B.A., 6, <i>Montague Place, W.</i>
³¹ 1888.	Oct.	BLITH, A. Wynter, M.R.C.S., L.S.A., <i>Court House, Marglebone.</i>
⁶¹ 1888.	Oct.	†BOULENOIS, H. Percy, M.INST.C.E., <i>City Engineer, Liverpool.</i>
³⁷⁴ 1890.	Jan.	BOWMAN, SIR William, BART., M.D., LL.D., F.R.S., 5, <i>Clifford Street, Bond Street, W.</i>
⁶⁷ 1890.	Jan.	BRETT, A. T., M.D., M.O.H., <i>Watford House, Watford.</i>
³³ 1888.	Oct.	BRIGHTEN, W. G., 108, <i>Fenchurch Street, E.C.</i>
³²³ 1889.	Dec.	BROCK, J. H. E., M.D., D.S.C.LOND., 115, <i>Adelaide Road, South Hampstead.</i>
³⁶ 1888.	Oct.	BROWN, Harry, <i>The Elms, Worsley Road, Hampstead, N.W.</i>
³⁷ 1888.	Oct.	BROWNING, Benjamin, L.R.C.P., M.R.C.S., D.P.H.CAMB., M.O.H., 16, <i>Royal Terrace, Weymouth.</i>
³⁴ 1888.	Oct.	BURBERY, J. Stone, <i>Trent House, West Cowes, I. of W.</i>
³³ 1888.	Oct.	BURDETT, Henry C., F.S.S., F.L.S., <i>The Lodge, Porchester Square, W.</i>
⁴⁹ 1888.	Oct.	BURGESS, Peter, M.A., M.B., <i>Driffield, Yorkshire.</i>
⁷¹ 1888.	Oct.	CAMBRIDGE, H.R.H. THE DUKE OF, K.G., <i>Gloucester House, Park Lane, W.</i>
³¹⁷ 1888.	Oct.	CAREW, R. R., <i>Carpenters, Watford, Herts.</i>
⁷³ 1888.	Oct.	CARTER, R. Brudenell, F.R.C.S., 27, <i>Queen Anne Street, Cavendish Square, W.</i>
¹³ 1888.	Aug.	CASSAL, Charles E., F.I.C., F.C.S., <i>Town Hall, Kensington, W., (Vestry Hall, Mount Street, Grosvenor Square, W.), (Brenne House, Wandsworth Common, S.W.).</i>
⁵⁹ 1890.	May.	CATES, Arthur, F.R.I.B.A., 7, <i>Whitchall Yard, S.W.</i>
⁷¹ 1888.	Oct.	CLARK, F. Le Gros, F.R.S., <i>The Thorns, Sevenoaks, Kent.</i>
³¹³ 1888.	Oct.	COLLINS, H. H., F.R.I.B.A., 61, <i>Old Broad Street, E.C., (5, Randolph Road, W.).</i>
⁸⁷ 1889.	Dec.	COLLINS, Wm. J., M.D., D.S.C.LOND., D.P.H., 1, <i>Albert Terrace, Regent's Park, N.W.</i>
⁷⁵ 1888.	Oct.	COLMAN, J. J., M.P., <i>Carrow House, Norwich.</i>
⁷ 1888.	Aug.	CORFIELD, PROF. W. H., M.A., M.D.OXON., F.R.C.P. LOND., 19, <i>Savile Row, W.</i>
⁷⁶ 1888.	Oct.	CRAWFORD, SIR Thomas, M.D., K.C.B., 5, <i>St. John's Park, Blackheath.</i>
⁷⁷ 1888.	Oct.	CUTLER, Thomas William, F.R.I.B.A., 5, <i>Queen Square, Bloomsbury.</i>

Reg. No.	Date of Election.	
¹⁶¹ 1888.	Oct.	DAVEY, Alexander George, M.D., L.R.C.P., M.R.C.S., 9, <i>Belvedere Street, Ryde, Isle of Wight.</i>
¹¹⁰ 1891.	Mar.	DE COURCY MEADE, Thomas, M.INST.C.E., 1, <i>Park Villas, The Park, Highgate, N.</i>
¹⁶² 1888.	Oct.	DERBY, RT. HON. EARL OF, D.C.L., LL.D., F.R.S., 33, <i>St. James' Square, S.W.</i>
¹⁶³ 1888.	Oct.	DOULTON, SIR Henry, <i>Lambeth, S.W.</i>
¹¹² 1890.	Feb.	DOWSON, A., 3, <i>St. Queen Street, Westminster.</i>
³¹⁹ 1888.	Oct.	DOYLE, Patrick, C.E., F.G.S., <i>Indian Engineering, Spence's Hotel, Calcutta.</i>
¹¹ 1888.	Aug.	DUDFIELD, T. Orme, M.D., L.R.C.P., M.R.C.S., 14, <i>Ashburn Place, Cromwell Road, S.W.</i>
¹⁶⁴ 1888.	Oct.	DYKE, T. J., F.R.C.S., <i>The Hollies, Merthyr Tydfil.</i>
¹¹⁴ 1888.	Oct.	EATON, John, M.D., <i>Montreal House, Cleator Moor, Cumberland.</i>
¹¹⁵ 1888.	Oct.	ELLIS, W. Horton, F.R.MET.SOC.
³⁴⁴ 1890.	Dec.	EWART, Joseph, M.D., F.R.C.P., J.P., <i>Montpelier House, Montpelier Terrace, Brighton.</i>
¹¹⁹ 1888.	Oct.	FAYRER, 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>
¹²⁰ 1888.	Oct.	FIELD, Basil, B.A., 36, <i>Lincoln's Inn Fields, W.C.</i>
¹⁰ 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>
³¹¹ 1888.	Nov.	FORTESCUE, RT. HON. EARL, 48, <i>Grosvenor Gardens, S.W., (Castle Hill, South Molton, Devon).</i>
³ 1888.	Aug.	GALTON, SIR Douglas, K.C.B., D.C.L., LL.D., F.R.S., 12, <i>Chester Street, Grosvenor Place, S.W.</i>
¹³² 1888.	Oct.	GOWERS, William Richard, M.B., 50, <i>Queen Anne St., W.</i>
¹³¹ 1888.	Oct.	GRIMSHAW, Thomas Wrigley, M.D., <i>Priorsland, Carrickmines, Dublin.</i>
¹¹¹ 1888.	Oct.	HARKER, J., M.D., J.P., <i>Hazel Grove, Carnforth, Lanc.</i>
⁴¹⁰ 1890.	May.	HARRIS, Alfred E., L.R.C.P., L.R.C.S., M.O.H., <i>Vestry Hall, Upper Islington.</i>
¹¹² 1888.	Oct.	HARRIS, Thomas, F.R.I.B.A., 6, <i>Southampton Street, Bloomsbury Square, W.C.</i>
¹¹⁰ 1890.	Jan.	HARRISON, C., M.D., D.P.H.CAMB., <i>Newland, Lincoln.</i>
¹¹³ 1888.	Oct.	HART, Ernest, 38, <i>Wimpole Street, W.</i>
¹¹⁴ 1888.	Oct.	HAVILAND, A., M.R.C.S., <i>Douglas, Isle of Man.</i>
³⁴⁴ 1890.	June.	HEHIR, Patrick, M.D., F.R.C.S., D.P.H., <i>Hyderabad, Deccan, India.</i>
¹³¹ 1890.	Jan.	HILL, Alfred, M.D., M.R.C.S., L.S.A., <i>The Council House, Birmingham.</i>
³⁶⁷ 1888.	Dec.	HIME, Thomas Whiteside, A.B., M.B., L.R.C.S., 54, <i>Horton Road, Bradford.</i>
¹¹⁶ 1888.	Oct.	HODSON, George, M.INST.C.E., F.G.S., <i>Abbey Buildings, Princes Street, Westminster, (Loughborough).</i>

Reg. No.	Date of Election.	
160	1889. Dec.	HOPE, E. W., M.D., D.P.H., <i>Municipal Offices, Liverpool.</i>
117	1888. Oct.	HUMPHRY, SIR G. M., M.D., F.R.S., <i>Cambridge.</i>
161	1889. Dec.	HUNTER, SIR WILLIAM GUYER, K.C.M.G., M.D., F.R.C.P., 21, <i>Norfolk Crescent, Hyde Park, W.</i>
163	1890. Jan.	LIEFFE, WILLIAM, M.R.C.S., 41, <i>Osmaston Street, Derby.</i>
160	1888. Oct.	JONES, LIEUT.-COL. A. S., V. C., ASSOC. M. INST. C.E., <i>Culverside, Carshalton, Surrey.</i>
6	1888. Aug.	JUDGE, MARK H., A.R.I.B.A., 15, <i>Connaught Square, W.</i>
167	1888. Oct.	KELLY, CHARLES, M.D., F.R.C.P., <i>Ellesmere, Grattwicke Road, Worthing.</i>
354	1888. Dec.	KINGDON, J. A., <i>Grocer's Hall, E.C.</i>
163	1888. Oct.	LATHAM, BALDWIN, M. INST. C.E., F.R. MET. SOC., F.O.S., F.S.S., 13, <i>Victoria Street, S.W., (Duppas House, Croydon).</i>
170	1888. Oct.	LAW, HENRY, M. INST. C.E., F.R. MET. SOC., 17, <i>Victoria Street, S.W., (245, Fenchurch Lane, London).</i>
170	1889. Dec.	LAWRENCE, SIR TREVOR, BART., M.P., 57, <i>Prince's Gate, S.W.</i>
171	1888. Oct.	LAWSON, INSPECTOR-GENERAL R., LL.D., F.S.S., 20, <i>Lansdowne Road, Notting Hill.</i>
172	1888. Oct.	LEAF, CHARLES J., F.L.S., F.S.A., 6, <i>Sussex Place, Regent's Park, N.W.</i>
370	1888. Dec.	LEAF, W., LITT. DOC., 6, <i>Sussex Place, Regent's Park, N.W.</i>
5	1888. Aug.	LEWIS, PROF. T. HAYTER, F.S.A., F.R.I.B.A., 12, <i>Kensington Gardens Square, S.W.</i>
173	1888. Oct.	LIVESEY, J., M. INST. C.E., 2, <i>Victoria Mansions, Victoria Street, Westminster, S.W.</i>
353	1888. Dec.	LONGSTAFF, G. B., M.D., M.A., D.P.H., <i>Southfield Grange, Wandsworth, S.W.</i>
371	1888. Dec.	LUBBOCK, RT. HON. SIR JOHN, BART., M.P., D.C.L., F.R.S., <i>Lombard Street, E.C.</i>
156	1888. Oct.	MACKAY, JOHN ALEXANDER DIXIE, B.A. OXON., 1, <i>Westbourne Terrace, W.</i>
157	1888. Oct.	MANSERGH, JAMES, M. INST. C.E., 5, <i>Victoria Street, S.W.</i>
152	1888. Oct.	MEATH, RT. HON. EARL OF, 83, <i>Lancaster Gate, Hyde Park.</i>
202	1892. Oct.	MIDDLETON, REGINALD EMPSON, M. INST. C.E., F.S.I., 17, <i>Victoria Street, S.W.</i>
211	1890. Jan.	MURPHY, SHIRLEY F., M.R.C.S., 41, <i>Queen Anne Street, W.</i>
501	1890. June.	NEWSHOLME, ARTHUR, M.D., D.P.H., M.O.H., <i>Town Hall, Brighton, (15, College Road, Brighton).</i>
273	1888. Dec.	NIGHTINGALE, MISS F., 10, <i>South Street, Grosvenor Square, W.</i>
397	1890. May.	NORTH, SAMUEL W., M.R.C.S., F.G.S., M.O.H., <i>Mickle-gate, York.</i>
1	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.	
331	1890. Nov.	NOTTER, PROF. J. LANE, M.A., M.D., D.P.H., <i>West Cliffe, Woolston, Southampton.</i>
33	1888. Oct.	OHREN, MAGNUS, ASSOC. M. INST. C.E., F.C.S., <i>Lower Sydenham.</i>
322	1888. Oct.	OLLARD, J. F., <i>The Manor House, North Runcton, King's Lynn.</i>
322	1888. Oct.	OLLARD, WILLIAM LUDLAM, <i>Musticott House, Walsoken, Wisbeach, Norfolk.</i>
323	1889. Nov.	PAGET, CHARLES EDWARD, M.R.C.S., D.P.H., M.O.H., <i>Town Hall, Salford.</i>
323	1888. Oct.	PAGET, J., J.P., <i>Staffynwood, Mansfield.</i>
15	1888. Aug.	PARKES, CHARLES HENRY, <i>Netherfield, Weybridge.</i>
324	1888. Oct.	PARKES, LOUIS COLTMAN, M.D., M.R.C.S., D.P.H., 61, <i>Cadogan Square, S.W.</i>
325	1888. Oct.	PEGGS, J. WALLACE, ASSOC. M. INST. C.E., 9, <i>Welbeck Mansions, Cadogan Terrace, S.W., (21, Queen Anne's Gate, S.W.).</i>
226	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>
61	1890. Jan.	POWELL, SIR FRANCIS SHARP, BART., M.P., 1, <i>Cambridge Square, W., (Horton Old Hall, Bradford).</i>
327	1888. Oct.	PRITCHARD, E., M. INST. C.E., F.O.S., 1, <i>Victoria Street, S.W., (37, Waterloo Street, Birmingham).</i>
321	1888. Oct.	RAWLINSON, SIR ROBERT, K.C.B., M. INST. C.E., 11, <i>The Boltons, Brompton, S.W.</i>
250	1890. Feb.	REDWOOD, T. HALL, M.D., <i>The Lawn, Rhymney.</i>
63	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>
355	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>
272	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>
620	1892. Oct.	ROCHE, ANTHONY, 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>
215	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>
251	1890. Jan.	RUSSELL, J. B., M.D., LL.D., M.O.H., <i>Glasgow.</i>

Reg. No.	Date of Election.	
117	1889. Jan.	SALT, Thomas, M.P., 85, <i>St. George's Square, S.W.</i>
251	1889. Dec.	SEATON, Edward Cox, M.D., F.R.C.S., <i>The Limes, 56, North Side, Clapham Common.</i>
221	1888. Oct.	SHAW, George, 20, <i>King Edward Street, Newgate Street, E.C.</i>
371	1888. Dec.	SIEVEKING, Sir E. H., M.D., 17, <i>Manchester Sq., W.</i>
171	1889. Nov.	SMITH, James, Osborne, A.R.I.B.A., 34, <i>Southampton Street, Strand, W.C., (65, Frithfield Gardens, Exbridge Road, W.).</i>
122	1892. Oct.	SMITH, William Howard, ASSOC.M.INST.C.E., <i>City Engineer and Surveyor, Carlisle.</i>
217	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>
214	1888. Oct.	SNELL, H. Saxon, F.R.I.B.A., 22, <i>Southampton Buildings, W.C., (Lynden Lodge, Elmfield Rd., Bromley, Kent).</i>
120	1889. Mar.	STEPHENS, Henry C., M.P., <i>Avenue House, Finchley.</i>
220	1888. Oct.	STRONG, Henry John, M.D., <i>Colonnade House, The Steyne, Worthing.</i>
221	1888. Oct.	SYKES, J. F. J., M.D., B.Sc., 40, <i>Camden Square, N.W.</i>
1	1888. Aug.	SYMONS, G. J., F.R.S., 62, <i>Camden Square, N.W.</i>
253	1889. Dec.	TAYLOR, J. Stopford, M.D., M.O.H., 6, <i>Grove Park, Liverpool.</i>
250	1888. Oct.	TEMPLE, Right Rev. Frederick, D.D., LORD BISHOP OF LONDON, <i>The Palace, Fulham.</i>
221	1889. Dec.	THOMPSON, Sir Henry, M.D., 35, <i>Wimpole Street, W.</i>
222	1888. Oct.	THORNE, R. Thorne, C.B., M.D., 45, <i>Inverness Ter., W.</i>
223	1888. Oct.	TURNER, Ernest, F.R.I.B.A., 246, <i>Regent Street, W.</i>
8	1888. Aug.	TWINING, Thomas, <i>Perryn House, Twickenham.</i>
150	1889. Feb.	TYNDALL, Prof. John, LL.D., D.C.L., F.R.S., <i>Hind Head House, Shotter Mill, near Petersfield.</i>
113	1891. Nov.	VACHER, Francis, F.R.C.S., <i>Birkenhead.</i>
391	1889. Dec.	WALFORD, Edward, M.D., D.P.H.CAMB., M.R.C.S., M.O.H., <i>Town Hall, Cardiff.</i>
221	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>
229	1888. Oct.	WILSON, George, M.A., M.D., F.R.S.E., 7, <i>Avon Place Warwick.</i>
413	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.	
1	1890. May.	ADAMS, Frederick Edward, M.D., D.P.H., <i>Town Hall, Bolton.</i>
61	1889. Mar.	ADAMS, James, M.D., M.O.H., <i>Springwell, Barnes, Surrey.</i>
53	1891. Dec.	ADAMS, Prof. Henry, M.INST.C.E., F.S.I., 60, <i>Queen Victoria Street, E.C.</i>
63	1889. Mar.	ADKINS, George, L.R.C.P.LOND., D.P.H., M.O.H., <i>Ycalmpton, Plympton, Devon.</i>
53	1888. Dec.	AIRY, Hubert, M.A., M.D., <i>Local Government Board, S.W.</i>
131	1889. Feb.	ALDWINCKLE, Thomas William, F.R.I.B.A., 1, <i>Victoria Street, S.W.</i>
62	1888. Oct.	ALEXANDER, W. C., <i>Aubrey House, Campden Hill, W.</i>
70	1889. Apr.	ALLFREY, Charles Henry, M.D., F.R.C.S., D.P.H., <i>Plus Newydd, Princes Road, St. Leonards-on-Sea.</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>
100	1889. Jan.	†ANDERSON, John Reid, <i>The Cottage, Gibson's Hill, Norwood, S.E.</i>
11	1890. Dec.	ANDERSON, John, ASSOC.M.INST.C.E., <i>Town Hall, Montrose, N.B.</i>
21	1888. Oct.	ANDRESEN, August F., <i>Priory Cottage, Mill Lane, West Hampstead.</i>
21	1888. Oct.	ANDREW, Capt. C. W., 286, <i>Kennington Park Road, S.E.</i>
151	1889. Mar.	ANDREWS, G. R., <i>Surveyor, Johannesburg, South Africa.</i>
21	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>
151	1889. Nov.	ANSON, Frederick Henry, M.A., ASSOC.M.INST.C.E., 15, <i>Dean's Yard, Westminster, S.W.</i>
712	1892. Dec.	ARGLES, Frank, M.R.C.P., M.O.H., <i>Wanstead, Essex.</i>
16	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>
22	1888. Oct.	ARMSTRONG, Prof. H. E., Ph.D., F.R.S., 55, <i>Granville Park, Lewisham, S.E.</i>
161	1890. Oct.	ASPINALL, Miles, <i>Borough Engineer and Surveyor's Office, Worthing.</i>

Reg. No.	Date of Election.	
632	1891. Nov.	ATKINS, Alfred, ASSOC.M.INST.C.E., F.R.I.B.A., Wanganui, New Zealand.
"	1888. Oct.	AUMONIER, F., 110, High Street, Manchester Square, W.
673	1892. Jan.	BAILEY, Thomas Castley, L.R.C.P., M.R.C.P., M.O.H., Crewe, Cheshire.
630	1892. Mar.	BAIN, Laurence Augustus, M.D., D.P.H., Dipton, Lintz Green, Durham.
"	1888. Oct.	BAKER, Sir Benjamin, K.C.M.G., LL.D., F.R.S., M.INST.C.E., 2, Queen's Square Place, Westminster.
42	1888. Oct.	BAKER, R., Ballington House, Green Lanes, N.
631	1892. Feb.	BARCLAY, Arthur, ASSOC.M.INST.C.E., 3, Castle Street, Oxford Street, W.
330	1890. May.	BARTON, John Isaac, Ryde, (Ventnor), Isle of Wight.
631	1891. July.	BARWISE, Sidney, M.B., D.P.H., M.O.H., Derbyshire County Council, 61, Uttoxeter New Road, Derby.
634	1890. May.	BATEMAN, James, Assistant Engineer, Natal Government Railway.
47	1888. Oct.	BAUGH, Alfred C., Egerton Street, Wrexham.
44	1888. Oct.	BEAN, Alexander Thomas, 7, Victoria Street, S.W.
336	1888. Dec.	†BEARD, E. T., Wallsend, Perensy, Sussex.
331	1888. Oct.	BEARD, George, Thickthorn, Kenilworth.
41	1888. Oct.	BEARD, Neville, The Mount, Ashbourne.
334	1889. Dec.	BEARDMORE, George Russell, L.R.C.P.LOND., M.R.C.S., L.S.A., D.P.H.CAMB., Warwick House, Upper Street, Islington.
327	1888. Oct.	BECK, Marcus, M.B., 30, Wimpole Street, W.
30	1888. Oct.	BEDDOE, John, B.A., M.D., F.R.S., The Chantry, Bradford-on-Avon.
323	1888. Oct.	BEEVOR, Mrs. Elizabeth, 129, Harley Street, W.
31	1888. Oct.	BELL, Thomas, L.R.C.P.LOND., Uppingham, Rutland.
113	1888. Dec.	†BENJAMIN, Horace Bernton, F.R.G.S., 28, Albemarle Street, W., (37, Upper Grosvenor Street, W.).
32	1888. Oct.	BENNETT, Hugh, M.R.C.S., Builth Wells, Brecon.
630	1892. Mar.	BENNETT, William Benjamin George, ASSOC.M.INST.C.E., Cranleigh, Portswood Road, Southampton.
33	1888. Oct.	BERNARD, William Iarkins, 3, St. Stephen's Chambers, Baldwin Street, Bristol.
31	1888. Oct.	†BERRINGTON, R. E. W., ASSOC.M.INST.C.E., Graislely, Wolverhampton.
634	1892. Mar.	BERRY, William Walton, ASSOC.M.INST.C.E., Eccles, near Manchester.
36	1888. Oct.	BICKERSTETH, E. R., F.R.C.S., 2, Rodney St., Liverpool.
630	1891. Mar.	BILLINGHAM, J. A. L., Surveyor, R. Engineers, Royal Engineer Office, Colombo.
37	1888. Oct.	BLACK, SURG.-MAJOR W. G., 2, George Square, Edinburgh.
437	1889. Mar.	BLAIR, William Nisbet, ASSOC.M.INST.C.E., Vestry Hall, Pancras Road, N. W.

Reg. No.	Date of Election.	
35	1888. Oct.	BLASHILL, T., F.R.I.B.A., Superintending Architect, London County Council, Spring Gardens, S.W.
730	1892. Oct.	BLIZARD, John Henry, ASSOC.M.INST.C.E., F.S.I., Castle Lane, Southampton.
632	1889. Mar.	BLUMER, Frederick Milnes, B.A., M.B., M.O.H., Foregate Street, Stafford.
117	1889. Feb.	BOLDING, John T., 19, South Moulton Street, W.
632	1888. Oct.	BOND, Fredk. Adolphus, M.B., C.M.EDIN., D.P.H.EDIN., Helton Lodge, Ferndale, Tunbridge Wells.
333	1890. Apr.	BOOBYER, Philip, M.B., M.R.C.S., M.O.H., The Guildhall, Nottingham.
337	1888. Dec.	BOSTOCK, H., The Oaklands, Rowley Avenue, Stafford.
42	1888. Oct.	BOX, M. H.
632	1888. Oct.	BRACE, W. H., M.D., 7, Queen's Gate Terrace, S.W.
632	1888. Oct.	BRACKETT, Wm., 42, London Road, (27, High Street, Street, Tunbridge Wells).
632	1888. Oct.	BRADSHAW, James D., B.A., M.B., M.R.C.P., M.R.C.S., 30, George Street, Hanover Square, W.
631	1891. July.	BRAGA, Joao Francisco, L.S.A., F.C.S., F.I.S., F.G.S., D.P.H., Glen Villa, Sunbury-on-Thames.
630	1889. Mar.	BREHNER, George Reith, M.D., D.P.H., Bensham Lodge, West Croydon.
634	1888. Oct.	BRIDGES, J. H., M.B., F.R.C.P., The Brambles, Wimbledon.
637	1891. Jan.	BRIGHT, Philip, ASSOC.M.INST.C.E., 2, Newgate Street, E.C.
337	1888. Nov.	BRISTOWE, John Syer, M.D., F.R.S., 13, Old Burlington Street, W.
533	1889. Apr.	BRODIE, John Shanks, ASSOC.M.INST.C.E., Town Hall, Whitehaven, Cumberland.
144	1889. Mar.	BROOKE, Walter, ASSOC.M.INST.C.E., Albany Buildings, 39, Victoria Street, Westminster, S.W.
337	1889. Apr.	BROOKE, William, M.D., M.O.H., Shaw, near Oldham.
631	1892. Jan.	BROWN, Arthur, M.INST.C.E., The Guildhall, Nottingham.
724	1892. Oct.	†BROWN, Edwin, Local Board Offices, Burgess Hill.
63	1888. Oct.	BROWN, William Ibbis, St. Michael's Avenue and Guildhall, Northampton.
632	1891. Dec.	BRUCE, William, M.D., LL.D., M.O.H., Dingwall, Ross.
30	1888. Oct.	BRYANT, Thomas, F.R.C.S., 65, Grosvenor Street, W.
631	1891. Oct.	BUCKINGHAM, Edward de Vere, Architect, St. John Street, Winchester.
373	1888. Dec.	BUCKTON, Mrs. 27, Ladbroke Square, W.
621	1891. May.	BULLIS, William Daniel, Surveyor, 21, Finsbury Pavement, E.C.
631	1891. July.	BULSTRODE, Herbert Timbrell, M.A., M.D., D.P.H., Local Government Board, Whitehall, S.W.
412	1888. Dec.	†BUNTEN, Charles, care of W. F. Watkins, 8, Park Road, East Hill, Wandsworth.

Reg. No.	Date of Election.	
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>
350	1888. Dec.	BURMESTER, Miss E., 13, <i>Sussex Square, Hyde Park, W.</i>
667	1890. Jan.	BURR, Alfred, F.R.I.B.A., 85, <i>Gower Street, W.C.</i>
511	1889. Apr.	BURTON, Samuel Hubert, F.R.C.S., M.O.H., 50, <i>St. Giles's Street, Norwich.</i>
412	1889. Jan.	†BURTON, W. Kinninmond, ASSOC.M.INST.C.E., <i>Professor of Sanitary Engineering, Imperial University, Tokio, Japan.</i>
711	1892. June.	BUTTON, Fred Smith, ASSOC.M.INST.C.E., <i>Town Hall, and 13, Palatine Square, Burnley.</i>
463	1889. Feb.	†CAMPBELL, Adam Horsburgh, ASSOC.M.INST.C.E., <i>Borough Surveyor's Office, Stratford-on-Avon.</i>
75	1888. Oct.	CAMPBELL, Charles, <i>Queen Insurance Buildings, Church Street, Sheffield.</i>
323	1888. Oct.	CAMPBELL, HON. Dudley, 1, <i>Mitre Court Buildings, Temple.</i>
470	1889. Mar.	CAMPBELL, Kenneth Findlater, ASSOC.M.INST.C.E., <i>Borough Engineer, Stockton-on-Tees.</i>
743	1892. Nov.	CANTY, William Henry, <i>Surveyor, 40, Cambridge Street, Prospect Hill, Tunbridge Wells, Kent.</i>
73	1888. Oct.	CARLINE, John, ASSOC.M.INST.C.E., <i>Board of Works, Lewisham, S.E.</i>
500	1889. Mar.	CARLTON, George Brody, ASSOC.M.INST.C.E., <i>Knighton, Oak Hill Road, Beckenham.</i>
354	1888. Nov.	CARRITT, Ernest, 18 & 19, <i>Great St. Helens, E.C.</i>
600	1892. Feb.	CARROLL, John, M.B., C.M., D.P.H., M.O.H., 172, <i>Station Road, Ilkeston.</i>
703	1892. May.	CAWS, Edward Isaac, <i>Sea View, Isle of Wight.</i>
607	1890. Nov.	CHART, Robert Masters, <i>Mitcham, Surrey.</i>
61	1888. Oct.	CHATTERTON, George, M.INST.C.E., 46, <i>Queen Anne's Gate, S.W.</i>
62	1888. Oct.	CHATTOCK, Miss Frances C., <i>Solihull, Birmingham.</i>
53	1888. Oct.	CLARKE, James Wright, 8, <i>Salcott Road, Wandsworth.</i>
61	1888. Oct.	CLARKSON, J. W., M.R.C.S.E., L.R.C.P.L., c/o <i>Messrs. H. S. King & Co., Pall Mall, S.W.</i>
595	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>
65	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.</i>
332	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, 90, <i>Cromwell Road, S.W.</i>
63	1888. Oct.	†COMBER, P. F., M.INST.C.E. IRELAND, <i>Fairy Hill, Bray, Co. Wicklow.</i>

Reg. No.	Date of Election.	
720	1892. Sept.	†CONNAL, Eben, M.INST.C.E., 49, <i>Kerriland Terrace, Hillhead, Glasgow, Lanark, Scotland.</i>
72	1888. Oct.	†COOPER, C. H., ASSOC.M.INST.C.E., <i>Local Board Offices, Wimbledon.</i>
70	1888. Oct.	COOPER, Francis A., ASSOC.M.INST.C.E., c/o <i>H. F. Cooper, Nottingham and Notts Bank, Newark.</i>
532	1888. Nov.	COOPER, John, jun., <i>Croydon.</i>
413	1889. Jan.	†COOPER, William, 32, <i>Cheetham Street, Cheetham, Manchester.</i>
61	1888. Oct.	CORBETT, Joseph, <i>Borough Engineer, Town Hall, Salford.</i>
64	1891. Nov.	CORKE, Cecil A., L.R.C.P., M.O.H., 72, <i>High Street, Wem, Shropshire.</i>
66	1891. Dec.	CORNER, John, 543, <i>Cuyo, Buenos Ayres.</i>
67	1892. Mar.	CORNISH, William Robert, SURG.-GEN., F.R.C.S., C.I.E., Q.H.P., 8, <i>Creswell Gardens, S.W.</i>
62	1888. Oct.	CORSAN, John R., 80, <i>Gray's Inn Road, W.C.</i>
63	1888. Oct.	COURTNEY, MAJOR D. C., R.E., 22, <i>Collingham Gardens, Kensington, S.W.</i>
443	1889. Oct.	COWAN, Peter Chalmers, B.SC. (EDIN.), ASSOC.M. INST.C.E., <i>County Surveyor, Downpatrick.</i>
64	1888. Oct.	COWTAN, Frank, 309, <i>Oxford Street, W.</i>
557	1890. Oct.	†CRAIG, G. A., <i>Cambridge Villa, Windermere.</i>
65	1888. Oct.	CRANBROOK, THE RT. HON. VISCOUNT, G.C.S.I., 17, <i>Grosvenor Crescent, S.W.</i>
622	1891. Mar.	CRAWFORD-ROE, William Alexander F.R.C.S.E., <i>Surgeon-Major Indian Medical Service, Bengal.</i>
510	1889. June.	CREGEEN, Hugh Stowell, 42, <i>Freelands Road, Bromley, Kent.</i>
66	1888. Oct.	†CRIMP, W. Santo, M.INST.C.E., F.G.S., <i>London County Council, Spring Gardens.</i>
631	1891. June.	CRISP, James Gregory, 10, <i>"Esklee," Tivoli, Cheltenham.</i>
67	1888. Oct.	CROMBIE, James, M.B., D.P.H. EDIN., <i>Sidcup.</i>
64	1888. Oct.	CROWLEY, Frederick, <i>Ashdell, Alton, Hants.</i>
672	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., 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>
105	1888. Oct.	†DARCH, John, 74, <i>Sarsfield Road, Balham, S.W.</i>
709	1892. May.	DAVIS, Alfred T., ASSOC.M.INST.C.E., <i>Shirehall, Shrewsbury.</i>
590	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, <i>Surveyor to the Local Board Barking.</i>
104	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>
103	1888. Oct.	DEBENHAM, F. G., <i>Cheshunt Park, Herts.</i>

Reg. No.	Date of Election.	
107	1888. Oct.	DE CHAUMONT, Miss Anna Kennedy Francois, 86, Abingdon Road, Kensington, W.
721	1892. Sept.	†DENDY, William Cooper, F.A.S.I., Surveyors' De- partment, Lambeth Vestry, Kennington Green, S.E., Surrey.
110	1888. Oct.	DENNIS, Nelson F., Town Surveyor, West Cowes.
653	1891. Dec.	DENTON, Eardley Bailey, B.A., M.INST.C.E., 9, Bridge Street, Westminster.
313	1888. Oct.	DE SOLDENHOFF, Richard, 12, Newport Road, Cardiff.
611	1892. Apr.	DICKINSON, Thomas Rusholm, ASSOC.M.INST.C.E., Borough Surveyor, Hertford, Herts.
614	1892. Jan.	DICKINSON, William Gilbert, L.R.C.P., M.R.C.S., D.P.H., 1, Wimbledon Road, Southfields, Wandsworth.
112	1889. May.	DIXEY, Harry Edward, M.D., Woodgate, Great Malvern.
723	1892. Sept.	†DIXON, Francis Edward, Local Board Offices, Bamber Bridge in Walton-le-Dale, Lancaster.
627	1891. May.	DODD, Peter, ASSOC.M.INST.C.E., Engineer and Sur- veyor, Wandsworth, S.W.
323	1889. Apr.	DONOVAN, Dennis D., L.R.C.P., L.R.C.S., Superinten- dent Medical Officer of Health, City of Cork.
112	1888. Oct.	DOULTON, James Duncan, Lambeth.
616	1891. Jan.	DRAYSON, Walter B. H., 2, Newgate Street, E.C.
353	1890. Jan.	DRUMMOND, Edward, M.D., M.R.C.S., D.P.H.CAMB., The Ivy House, Hampstead, (3, Piazza di Spagna, Rome).
316	1889. Apr.	EATON-SHORE, George, ASSOC.M.INST.C.E., Borough Engineer, 190, Edlestone Road, Crewe.
117	1888. Oct.	EBURY, Rt. Hon. Lord, Moor Park, Rickmansworth.
331	1888. Oct.	ECCLES, Miss Jane Helen, 3, Dean's Yard, West- minster, S.W.
614	1891. Feb.	EDGE, Frederic James, ASSOC.M.INST.C.E., Public Offices, Clator Moor, Cumberland.
114	1888. Oct.	ELFORD, John, Borough Surveyor, Poole, Dorset.
713	1892. June.	ELLIOT, Robert Henry, M.B.LOND., D.P.H., Madras Medical Service, Madras.
343	1888. Dec.	EMERSON, W., F.R.I.B.A., 8, The Sanctuary, S.W.
692	1892. Mar.	ENTWISTLE, Henry, Local Board Offices, Swinton, Lancaster.
420	1889. Jan.	ERICHSEN, J. Eric, F.R.S., 6, Cavendish Place, W.
350	1888. Nov.	EVERS, SURG.-MAJOR B., care of Messrs. Watson Bros., 27, Leadenhall Street, E.C.
421	1889. Jan.	FARRER, Sir T. H., BART., 27, Bryanston Square, W.
625	1892. Mar.	FARRINGTON, William, Town Hall, Hoggland Nether, Yorkshire.
123	1888. Oct.	FAWCETT, William Milner, M.A., F.R.I.B.A., 1, Silver Street, Cambridge.
637	1891. July.	†FELKIN, Howard Riley, 23, Brackley Road, Chiswick.
124	1888. Oct.	FERNIE, C. W. B., Keythorpe, Leicester.
125	1888. Oct.	FIELD, Horace, 14, Gray's Inn Square, W.C.

Reg. No.	Date of Election.	
127	1888. Oct.	FISHER, T. J., 50, Thorne Road, South Lambeth.
721	1892. Sept.	FLETCHER, Walter John, F.R.I.B.A., Wimborne, Dorset.
111	1891. Oct.	†FLOWER, Thomas James Moss, Carlton Chambers, Baldwin Street, Bristol.
134	1888. Oct.	FORDE, H. C., M.INST.C.E., 4, Great Winchester Street, E.C.
119	1891. May.	FOSBROKE, G. H., M.R.C.S., D.P.H., M.O.H., The County Hall, Worcester.
121	1888. Oct.	FOSTER, Reginald Le Neve, F.C.S., North Road, Droylsdon, Manchester.
711	1892. Nov.	FOWLER, Alfred Mountain, M.INST.C.E., 1, St. Peter's Square, Manchester, Lancaster.
113	1888. Oct.	FRANK, Philip, M.D., Cannes, France.
121	1888. Oct.	FRASER, James, M.INST.C.E., 100, Castle Street, Inverness.
122	1889. Jan.	FRASER, W. J., ASSOC.M.INST.C.E., 98, Commercial Road, E.
115	1888. Oct.	GALTON, Francis, F.R.S., 42, Rutland Gate, S.W.
121	1889. Mar.	GANGE, Frederick A., M.D., M.O.H., Faversham, Kent.
712	1892. Oct.	GAY, John, M.R.C.S., L.R.C.P., D.P.H., 119, Upper Richmond Road, Putney, S.W.
116	1888. Oct.	†GEEN, Harry, Hillside, Okehampton, Devon.
118	1891. July.	†GIBBS, Arthur Gordon, Surveyor's Office, Midhurst.
310	1889. Dec.	†GIBSON, William, Bonhay Road, Exeter.
111	1889. Jan.	†GILBY, Charles, Bath.
137	1888. Oct.	GILL, D., Farleigh, Weston-super-Mare.
110	1891. Nov.	GILLIAND, William John, Architect, 74, Royal Avenue, Belfast.
341	1888. Dec.	GLADSTONE, J. H., PH.D., F.R.S., 17, Pembroke Square, W.
672	1892. Jan.	GLAISTER, John, M.D., D.P.H., 101, Great Russell Street, W.C.
342	1888. Dec.	GLEN, A. W., 33, Davies Street, Berkeley Square, W.
373	1890. Mar.	GODFREY, Robert, ASSOC.M.INST.C.E., King's Heath, Worcestershire.
613	1891. Jan.	GOING, Joseph A., M.R.C.S., B.A., M.O.H., Fox Bay, West Falkland Islands, South America.
316	1889. Nov.	GOODYEAR, Herbert, ASSOC.M.INST.C.E., Colchester, Essex.
314	1889. Apr.	GRANT, Ogilvie, M.B., C.M.EDIN., M.O.H., Queen Mary's House, Inverness.
646	1892. Feb.	GRANTHAM, Richard Fuge, M.INST.C.E., Northumber- land Chambers, Northumberland Avenue, S.W.
133	1888. Oct.	GRAY, Alexander, 25, Greenhill Road, Hampstead, N.W.
341	1890. Apr.	GREATOREX, Albert Daniel, Municipal Offices, South- hampton.
713	1892. July.	†GREEN, William Samuel, Idridgehay, Derby.

Reg. No.	Date of Election.	
703	1892. Apr.	GREGSON, John, ASSOC.M.INST.C.E., <i>Woodbine House, Padliham, Lancaster.</i>
110	1888. Oct.	GRELLIER, William, F.R.I.B.A., 6, <i>Queen Anne's Gate, S.W.</i>
311	1888. Oct.	GROVES, Joseph, B.A., M.D., F.G.S., <i>Carisbrooke, Isle of Wight.</i>
505	1890. Jan.	GRUGEN, William, D.P.H., 11, <i>Montpelier Road, Ealing, W.</i>
337	1888. Oct.	HALL, E. T., F.R.I.B.A., 57, <i>Moorgate Street, E.C.</i>
620	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., 456, <i>Liverpool Road, Patricroft, Lancashire.</i>
647	1892. Mar.	HAMPSON, Willie Thomas, F.S.I., <i>Shakespeare House, Loughborough, and Hotel Street, Coalville, Leicester.</i>
114	1888. Oct.	HANCOCK, Charles, M.A.OXON, 2, <i>The Cloisters, Temple, E.C., and Reform Club, S.W.</i>
715	1892. Nov.	HARDWICKE, William Wright, M.D. St. Andrews M.R.C.P., J.P., <i>Medical Officer of Health for Harwich, Stour House, Dovercourt, Essex.</i>
616	1890. Dec.	HANSON, John, <i>Victoria Chemical Works, Wakefield.</i>
173	1889. Mar.	HARDING, J. R., M.INST.C.E., <i>Epsom, Surrey.</i>
503	1889. Apr.	HARE, C. J., M.D., F.R.C.P., <i>Berkley House, 15, Manchester Square, W.</i>
156	1889. Mar.	HARPER, William, M.INST.C.E., <i>Town Hall, and 197, Severn Road, Cardiff.</i>
570	1890. Apr.	HARRIS, Arthur Wellesley, M.R.C.S., L.S.A., D.P.H., M.O.H., <i>High Street, Southampton.</i>
131	1888. Oct.	HARRISSON, Thomas Harnett, ASSOC.M.INST.C.E., <i>Central Buildings, North John Street, Liverpool.</i>
747	1892. Nov.	HARRISON, William Joseph, ASSOC.M.INST.C.E., F.R.MET.SOC., 7, <i>Carteret Street, Westminster, S.W.</i>
357	1888. Dec.	HARROLD, Miss C., 10, <i>Church Road, Edgbaston, Birmingham.</i>
615	1891. Nov.	HASLAM, Dryland, Junr., F.A.S.I., 17, <i>Friar Street, Reading.</i>
338	1888. Oct.	HASLAM, Lewis, <i>Ravenswood, near Bolton.</i>
625	1891. Apr.	HASLIP, George Ernest, M.D., M.R.C.S., L.R.C.P., D.P.H., 3, <i>Southampton Street, Strand.</i>
132	1888. Oct.	HAYWARD, C. F., F.S.A., F.R.I.B.A., 47, <i>Museum Street, Bloomsbury, W.C.</i>
339	1888. Oct.	HEAD, Henry, <i>Buckingham, Old Shoreham, Sussex.</i>
415	1889. Feb.	HEAD, Mrs. H., <i>Buckingham, Old Shoreham, Sussex.</i>
133	1888. Oct.	HELLYER, S. Stevens, 21, <i>Newcastle Street, Strand, W.C.</i>
477	1889. Mar.	HERBERT, Johnson, L.R.C.P., 3, <i>Belle Vue Terrace, Whitby.</i>
330	1888. Dec.	HILL, Miss F. M. Davenport, 25, <i>Belsize Avenue, N.W.</i>
349	1888. Dec.	HILL, Miss R. Davenport, 25, <i>Belsize Avenue, N.W.</i>

Reg. No.	Date of Election.	
121	1889. Jan.	HILL, Pearson, 6, <i>Pembroke Square, W.</i>
611	1891. Jan.	HILL, Prof. A. Bostock, M.D., D.P.H., M.O.H., <i>Elmhurst, Olton, Birmingham.</i>
133	1888. Oct.	HILL, Samuel, A.R.I.B.A., 16, <i>Russell Square, W.C.</i>
134	1888. Oct.	HILL, William H., <i>Town Hall, Kensington.</i>
612	1891. Oct.	†HILLS, Harry James, 14, <i>Werrington Street, Camden Town, N.W.</i>
670	1892. Feb.	HOBSON, John Morrison, M.D., D.P.H., <i>Croydon.</i>
677	1889. Mar.	HODGETTS, E. A. Brayley, 39, <i>Redcliffe Square, South Kensington, S.W., and Agence Dalziel, 50, Rue des Victoires, Paris, N.W.</i>
137	1888. Oct.	HODGSON, Shadworth H., 45, <i>Conduit Street, W.</i>
638	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.</i>
138	1888. Oct.	HOLMES, Timothy, M.A., F.R.C.S., 18, <i>Great Cumberland Place, W.</i>
139	1888. Oct.	HOLT, H. P., ASSOC.M.INST.C.E., F.G.S., <i>The Cedars, Didsbury, Manchester.</i>
633	1891. Nov.	HOLROYDE, John, M.R.C.S., L.S.A., D.P.H., M.O.H., <i>Camden House, Chatham.</i>
678	1889. Mar.	HOOLEY, Cosmo C., ASSOC.M.INST.C.E., <i>The Union Offices, Barton-upon-Irwell, Manchester.</i>
333	1889. Nov.	HOOPER, Charles, M.R.C.S., M.O.H., <i>Aylesbury, Bucks.</i>
413	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>
162	1888. Oct.	HOWE, George, 41, <i>Wigmore Street, W.</i>
502	1890. June.	†HOY, Peter, 7, <i>Park Place, Clarence Gate, N.W.</i>
163	1888. Oct.	†HUBBER, Frank, 85, <i>South Street, Exeter.</i>
649	1891. Oct.	†HUNT, John W., <i>Maindee, Newport, Monmouth.</i>
642	1892. Feb.	HUNTER, Alexander H., <i>Surveyor and Sanitary Inspector, Oswestry, Salop.</i>
301	1888. Dec.	INGLIS, Cornelius, M.D., 1, <i>Albert Mansions, Victoria Street, S.W.</i>
661	1891. Nov.	INGRAM, Matthew, <i>Manchester.</i>
555	1890. May.	IVOR-MOORE, T., <i>Fairfield Gold Tops, Newport, Mons.</i>
631	1890. Nov.	†JAMES, Arthur Charles, <i>Borough Surveyor's Office, Cambridge.</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>
634	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, Middlesex.</i>
611	1891. Oct.	†KAY, Walter Robert, <i>Mount Sion House, Bury.</i>
502	1889. Mar.	KEMPSTER, William Henry, M.D., M.O.H., <i>Oak House, Battersed.</i>

Reg. No.	Date of Election.	
701	1892. Apr.	KENDALL, Daniel Burton, M.B.CANTAB., <i>Thornhill House, Walton, Wakefield.</i>
154	1888. Oct.	KENSETT-BARRINGTON, Sir Vincent Hunter B., 65, <i>Albert Hall Mansions, Kensington Gore.</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>
717	1892. July.	†KILFORD, Henry James, <i>Borough Surveyor, Ilkerton, Derby.</i>
151	1889. Dec.	KIRBY, Oscar John, <i>Engineer and Manager Water Works, Batley.</i>
301	1889. Mar.	KIRWAN, SURGEON-MAJOR A., D.P.H., <i>St. Lucia, West Indies.</i>
47	1889. Mar.	KYLE, Thomas W., M.D., D.P.H., M.O.H., <i>Measham, Atherstone.</i>
174	1888. Oct.	LACY, William George, 82, <i>East Hill, Wandsworth.</i>
710	1892. May.	LAFFAN, George Bastable, ASSOC.M.INST.C.E., <i>Local Board Offices, Queen's Road, Twickenham.</i>
334	1889. May.	LAINO, R., M.R.C.S., L.R.C.P., F.R.MET.SOC., M.O.H., 29, <i>Waterloo Road, Blyth, Northumberland.</i>
443	1888. Dec.	LAVENDER, Charles Henry Nalder, 2, <i>Ulster Terrace, Regent's Park, N.W.</i>
714	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>
173	1888. Oct.	LAWRENCE, Edwin, 10, <i>Kensington Palace Gardens, W.</i>
177	1888. Oct.	LE GRAND, A., 125, <i>Bunhill Row, E.C.</i>
175	1888. Oct.	LEMON, James, M.INST.C.E., F.R.I.B.A., F.S.I., F.G.S., <i>Lansdowne House, Southampton, (Palace Chambers, Westminster).</i>
171	1888. Oct.	LEONARD, Hugh, 7, <i>Hanover Square, W.</i>
150	1888. Oct.	LE ROSSIGNOL, Francis, F.S.I., 1, <i>Gresham Buildings, Basinghall Street, E.C., (29, Penn Road Villas, Camden Road, N.).</i>
136	1889. June.	LETTIS, Thomas Hollins, 185, <i>Earls Court Road, South Kensington.</i>
712	1892. Oct.	LEWIS, Thomas Laurence, <i>Engineer and Surveyor, St. George, Gloucester.</i>
182	1882. Oct.	LINGARD, J. Edward, <i>Rodney Chambers, Derby.</i>
673	1892. Jan.	LITTLE, John Fletcher, M.B., M.R.C.P., M.O.H., 60, <i>Welbeck Street, W.</i>
143	1888. Oct.	LLOYD, Robert Samuel, 84 & 85, <i>Whitecross Street, E.C.</i>
373	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>
307	1889. Apr.	LOCKWOOD, Phillip Causton, M.INST.C.E., 1, <i>Gloucester Place, Brighton.</i>
700	1892. Apr.	LOWE, Louis J., <i>Cassilla, 448, Buenos Ayres, Argentine Republic, South America.</i>

Reg. No.	Date of Election.	
121	1889. Jan.	LOWE, Mrs. Thomas, <i>Solihull, Birmingham.</i>
624	1891. June.	LYNDE, Frederick Charles, ASSOC.M.INST.C.E., 25, <i>Cross Street, Manchester, (9, Victoria Street, S.W.).</i>
151	1888. Oct.	LYON, Washington, 85, <i>Asylum Road, Peckham, S.E.</i>
151	1888. Oct.	MACASSEY, L. Livingston, M.INST.C.E., 1, <i>Plowden Buildings, Temple, E.C.</i>
150	1888. Oct.	†MACKENZIE, F. Morell, M.R.C.S., L.S.A., 10, <i>Hans Place, S.W.</i>
606	1891. Nov.	MACKENZIE, William Leslie, M.A., M.B., C.M., D.P.H., <i>County M.O.H., Castle Douglas, N.B.</i>
151	1888. Oct.	MACKAY, John B., 2, <i>Bouverie Street, Fleet Street, E.C.</i>
151	1889. Mar.	MACNAMARA, Charles Edward, L.K.Q.C.P.I., D.P.H., 95, <i>Stephen's Green, Dublin.</i>
326	1888. Dec.	MCAURTHUR, A., M.P., 79, <i>Holland Park, W.</i>
609	1890. Oct.	MCBEATH, William, M.A., M.D., D.P.H., 7, <i>Flora Place, Plymouth.</i>
151	1888. Oct.	MCINTOSH, James, <i>Dunccevan, Oatlands Park, Weybridge.</i>
312	1888. Oct.	McKIE, Hugh Umsworth, M.INST.C.E., 11, <i>Victoria Street, Westminster.</i>
153	1888. Oct.	McMORRAN, Alexander, <i>Galloway House, Carlton Road, Putney.</i>
151	1890. Apr.	McNEILL, Roger, M.D., D.P.H., J.P., <i>County Medical and Sanitary Officer, Oban.</i>
153	1888. Oct.	†MAGUIRE, William Robert, F.R.MET.SOC., 10, <i>Dawson Street, Dublin, (Town Hill, Dalkey, Co. Dublin).</i>
154	1888. Oct.	MALTBY, 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>
334	1890. July.	MARSDEN, James Aspinall, M.R.C.S., L.S.A., D.P.H., M.O.H., <i>Standish, Wigan, Lancashire.</i>
735	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>
112	1888. Dec.	MARTINDALE, William, 10, <i>New Cavendish Street, W.</i>
185	1888. Oct.	MARTINEAU, E. H., F.R.I.B.A., 30, <i>Weymouth Street, Portland Place, W.</i>
156	1888. Oct.	MASON, Hugh H., M.R.C.S., <i>Abbey Lodge, Barking.</i>
157	1889. Nov.	†MASSEY, Joseph Bennett, 64, <i>Burns Street, Burnley, Lancaster.</i>
651	1892. Feb.	MASSIE, Frank, ASSOC.M.INST.C.E., F.S.I., F.R.MET.SOC., <i>Tetley House, Wakefield.</i>
197	1888. Oct.	MATHEWS, J. Douglass, F.R.I.B.A., F.S.I., 11, <i>Dowgate Hill, E.C.</i>
200	1888. Oct.	†MAWBEX, E. G., ASSOC.M.INST.C.E., <i>Borough Engineer and Surveyor, Town Hall, Leicester.</i>

Reg. No.	Date of Election.	
313	1888. Oct.	MELISSEOS, G. C. A. Melisurgo, ASSOC.M.INST.C.E., <i>Palazzo Cocozzo, 76, Via Poerio, Naples.</i>
201	1888. Oct.	†METCALF, John W., 31, <i>Tamworth Road, Ashby-de- la-Zouch.</i>
631	1891. Nov.	METCALFE, James, 5, <i>Nether Hall Road, Doncaster.</i>
204	1888. Oct.	MINEARD, George Edward, F.R.H.S., 70, <i>Philbeach Gardens, Earl's Court, S.W.</i>
735	1892. Oct.	†MITCHELL, Lewis, 79, <i>Scott Street, Glasgow.</i>
603	1891. Dec.	MITCHELL, Robert, <i>Consulting Sanitary Engineer, Cape Town, South Africa.</i>
203	1888. Oct.	MOCATTA, F. D., 9, <i>Connaught Place, W.</i>
207	1888. Oct.	MONTAGU, Samuel, 12, <i>Kensington Palace Gardens, W.</i>
601	1892. Mar.	MOORE, Albert, M.S.C.I., L.R.C.V.S., F.I.C., 21, <i>Holcroft Pavement, Fulham, Middlesex.</i>
205	1888. Oct.	MOORE, J. H., <i>St. Michael's Lodge, Bournemouth.</i>
604	1891. Dec.	MORE, James, Jun., ASSOC.M.INST.C.E., F.R.MET.SOC., 49, <i>Orlando Road, Clapham, S.W.</i>
372	1890. Mar.	MORGAN, William Pringle, B.A., M.B., B.CH., D.P.H., <i>Hardis House, Salford.</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>
204	1888. Oct.	†MORLEY, J. G., ASSOC.M.INST.C.E., <i>Town Hall, Strat- ford, E.</i>
613	1891. Jan.	MORRIS, Albert, M.R.C.S., L.R.C.P., <i>Post Office Buildings, Southend.</i>
733	1892. Nov.	†MORRIS, Griffith John, <i>R.F. Establishment, Bar- hados.</i>
324	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>Ports- mouth.</i>
512	1889. Apr.	MUNCE, James, ASSOC.M.INST.C.E., <i>Town Hall, Belfast.</i>
363	1889. Dec.	MUNDAY, MAJOR Henry, 23, <i>Oakley Square, N.W.</i>
519	1889. Apr.	MURPHY, Francis Henry Swinton, M.D., D.P.H., <i>Royal Arsenal, Woolwich.</i>
215	1888. Oct.	NANSON, Tom, 9, <i>Park Crescent, Stockwell Park Road, S.W.</i>
362	1888. Nov.	NASH, BRIGADE-SURGEON William, M.D., 18, <i>Victoria Street, Westminster, S.W.</i>
520	1889. May.	NASMYTH, Thomas Goodall, M.B., C.M., D.P.H., F.R.S.E., <i>Cowdenbeath, Fife.</i>

Reg. No.	Date of Election.	
159	1889. Mar.	NELSON, E. M., <i>Hanger Hill House, Ealing.</i>
216	1888. Oct.	NELSON, George H., <i>The Lawn, Warwick.</i>
733	1892. Oct.	†NEWMAN, Reginald William, 53, <i>Barnmead Road, Kent House, Beckenham, Kent.</i>
217	1888. Oct.	NEWTON, Edward, F.R.C.S., 85, <i>Gloucester Place, Hyde Park, W.</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>Ballogie, Aboyne, Aberdeen.</i>
609	1890. Dec.	NUNN, F. C., ASSOC.M.INST.C.E., <i>Eastnor, Sydenham Hill, Surrey.</i>
224	1888. Oct.	PAGE, Herbert Markant, M.D., D.P.H.CAMB., M.R.C.S., 16, <i>Prospect Hill, Redditch.</i>
210	1888. Oct.	PAGLIARDINI, T., 21, <i>Alexander Street, Westbourne Park, W.</i>
311	1889. May.	PARKER, G. R., M.R.C.S., L.R.C.P., M.O.H., 34, <i>King Street, Lancaster.</i>
333	1889. Mar.	PARKER, John, ASSOC.M.INST.C.E., 42, <i>Dryden Street, Nottingham.</i>
374	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, Lanchester, Durham.</i>
231	1888. Oct.	PARKES, Miss P., 8, <i>Grove Road, Surbiton, S.W.</i>
716	1892. July.	PARKIN, John Robert, ASSOC.M.INST.C.E., <i>Idridgehay, Derby.</i>
213	1888. Oct.	PARSONS, H. Franklin, M.D., <i>Local Government Board, Whitehall, S.W.</i>
61	1889. Mar.	PARTRIDGE, Thomas, M.R.C.P.I., M.K.Q.C.S.I., 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, Middlesex.</i>
530	1889. May.	PATTEN, Charles Arthur, L.R.C.P., M.O.H., <i>Ealing.</i>
211	1888. Oct.	PATTINSON, S., <i>Ruskington, Skeaford, Lincoln.</i>
304	1888. Dec.	PEAKE, Francis, <i>The Waldrons, Croydon.</i>
713	1892. July.	PEARSE, Thomas Frederick, M.D., F.R.C.S., M.R.C.P., D.P.H., 12, <i>Norfolk Street, Southsea, Hants.</i>
600	1888. Dec.	PEEL, Edmund, <i>Brynffys, Ruabon, North Wales.</i>
216	1888. Oct.	†PHILLIPSON, Burton R., <i>Baggot Street, Dublin.</i>
600	1891. Nov.	PILLEY, John J., 2, <i>Malfort Road, Denmark Hill, S.E.</i>
719	1892. Nov.	PLATT, Samuel Sydney, ASSOC.M.INST.C.E., <i>Borough Surveyor, Town Hall, Rochdale.</i>
751	1892. Dec.	†POULSON, Frederick Thomas, <i>County Sanitary In- spector, 9, Lime Tree Avenue, Tollington Street, Stafford.</i>
237	1888. Oct.	POWELL, George Thompson, <i>Rotherwood, Sydenham Hill, (28 and 29, St. Swithin's Lane, E.C.).</i>
341	1888. Oct.	POWELL, J., 19, <i>Castle Street, Liverpool.</i>

Reg. No.	Date of Election.	
162	1888. Dec.	PRIESTLY, Mrs. Eliza, 17, <i>Hertford Street, Manfair.</i>
315	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>
214	1888. Oct.	PULLAR, Robert, J.P., F.R.S.E., <i>Tayside, Perth.</i>
211	1888. Oct.	PULLIN, T. H. S., M.D., F.R.C.S., F.S.A., <i>Sidmouth, Devon.</i>
210	1888. Oct.	PURNELL, W. J., <i>Vincent Row, Vincent Street, Westminster.</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>
150	1889. Nov.	††RANCLIFFE, Joseph, F.R.MET.SOC., <i>The Waterworks, Todmorden, Lancaster.</i>
601	1890. Nov.	RADFORD, John Charles, ASSOC.M.INST.C.E., <i>Surveyor, 113, High Street, Putney.</i>
210	1888. Oct.	†RADFORD, W. H., ASSOC.M.INST.C.E., A.R.I.B.A., <i>Pelham Chambers, Angel Row, Nottingham.</i>
162	1889. Mar.	†RAILTON, James, <i>Town Hall, Lower Edmonton.</i>
150	1890. Apr.	RAINGER, Charles Henry, 9, <i>Bath Place, Cheltenham.</i>
163	1889. Mar.	READ, Richard, ASSOC.M.INST.C.E., <i>City Surveyor, Gloucester.</i>
710	1892. Oct.	REDMAN, Robert Wilkins, <i>Borough Surveyor, Deal, Kent.</i>
343	1888. Nov.	REYNOLDS, Mrs. Russell, 38, <i>Grosvenor Street, W.</i>
371	1890. Mar.	RHODES, John William, 7, <i>Mitre Court Chambers, Temple, E.C.</i>
707	1892. Apr.	RICHARDSON, William, M.D., BSC.P.H., <i>Lunatic Asylum, Union Mills, Isle of Man.</i>
710	1892. Oct.	†RIDGWAY, Ernest Reginald, <i>Long Eaton, Derby.</i>
210	1888. Oct.	RIDINGS, H. Sadleir, M.A., M.INST.C.E., <i>Care of H. S. King & Co., 65, Cornhill, E.C.</i>
253	1888. Oct.	ROBERTS, Frederick F., M.D., 102, <i>Harley Street, W.</i>
371	1890. Jan.	ROBERTS, Richard Lawton, M.D., D.P.H.CAMB., M.R.C.S., L.S.A., <i>Ruabon, North Wales.</i>
163	1888. Dec.	ROBINS, Edward, 22, <i>Conduit Street, W.</i>
703	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>Whitchall Place, S.W.</i>
515	1889. Apr.	ROGERS, George Arthur, M.R.C.S.E., L.S.A., M.O.H., 404, <i>Commercial Road, E.</i>
735	1892. Oct.	ROSS, Percival, ASSOC.M.INST.C.E., <i>Surveyor to North Burley Local Board, Bradford.</i>
251	1888. Oct.	ROTH, W. M.D., 6, <i>Kaizer Wilhelm Platz, Dresden, N.</i>
275	1888. Oct.	RUSSELL, Hon. Lady Agatha, <i>Pembroke Lodge, Richmond Park, Surrey.</i>
619	1891. Nov.	†SAISE, Alfred John, <i>Stapleton, Bristol.</i>
451	1889. Mar.	SANDELL, Henry W. Adrian, M.R.C.S., M.O.H., <i>Leighton Buzzard.</i>

Reg. No.	Date of Election.	
651	1892. Feb.	SAUNDERS, Henry Ingatton, <i>St. Regulus, Antiers Road, Southampton.</i>
153	1889. Mar.	SCHOFIELD, Gerald, M.R.C.S., L.R.C.P., D.P.H., <i>Durham House, Bournemouth.</i>
222	1888. Oct.	SCOTT, Bowes, <i>Broadway Chambers, S.W.</i>
657	1891. Nov.	SCOTT, Conway, <i>Executive Sanitary Officer, Town Hall, Belfast.</i>
658	1889. Mar.	SCOTT, Hugh Hamilton, ASSOC.M.INST.C.E., <i>Town Hall, Hove, Brighton.</i>
221	1888. Oct.	SCOTT-MONCRIEFF, W. D., M.I.M.E., 86, <i>Newman Street, W.</i>
710	1892. Oct.	SCOTT, Robert Smith, ASSOC.M.INST.C.E., <i>Town Surveyor, Bishop Stortford.</i>
221	1888. Oct.	SCRIVEN, J. Barclay, M.R.C.S., 95, <i>Oxford Gardens, North Kensington.</i>
611	1888. Dec.	SEARLES-WOOD, Herbert D., F.R.I.B.A., 157, <i>Wool Exchange, E.C.</i>
163	1889. Jan.	SELBY, Prideaux, <i>Koroit, North Park, Croydon.</i>
657	1889. Mar.	SELLERS, William, Junr., M.D., M.O.H., <i>Bank House, Radcliffe, Manchester.</i>
658	1889. Mar.	SHADWELL, St. Clair B., L.R.C.P., M.R.C.S., M.O.H., <i>Lynhurst, Walthamstow.</i>
658	1889. Mar.	SHAW, Charles Knox, L.R.C.P., M.R.C.S., 19, <i>Upper Wimpole Street, W.</i>
221	1889. Apr.	SHAW, Josephus, M.R.C.S., L.S.A., M.O.H., 151, <i>Lower Road, Rotherhithe.</i>
611	1891. Oct.	SHELBOURN, Michael, <i>Architect and Surveyor, Belvoir, Grantham.</i>
659	1891. Nov.	SHIMELD, James, L.R.C.P. and S.E., M.O.H., <i>Salisbury House, Ilford.</i>
650	1889. Mar.	SHIRTLEIFF, Edward Matthew, M.D., M.O.H., <i>Elm Side, Kingston-on-Thames.</i>
430	1889. Jan.	SHONE, Isaac, ASSOC.M.INST.C.E., <i>Gt. George Street Chambers, S.W.</i>
220	1888. Oct.	SHONKSMITH, John Henry, <i>Micklegate, York.</i>
267	1888. Oct.	SILLAR, W. G., <i>St. James' Lodge, Kidbrooke Park Road, Blackheath, S.E.</i>
611	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>Mentone, Alpes-Maritimes, France.</i>
270	1888. Oct.	SKRINE, Henry Duncan, <i>Claverton Manor, Bath.</i>
539	1889. June.	††SMITH, Charles Chambers, <i>Surveyor's Office, Dalton-in-Furness.</i>
677	1892. Jan.	SMITH, James Dear, M.D., D.P.H., 16, <i>Nelson Road, Southsea.</i>
97	1892. Mar.	SMITH, John, ASSOC.M.INST.C.E., <i>County Surveyor's Office, Ballinasloe, Galway.</i>
271	1888. Oct.	SMITH, Percival Gordon, F.R.I.B.A., <i>Highfield, Stonebridge Park, Willesden.</i>

Reg. No.	Date of Election.	
272	1888. Oct.	SMITH, R. W., <i>Mount Rundell, Harborne, Birmingham.</i>
273	1888. Oct.	SMITH, Thos. Fredk. H., F.R.C.S., L.S.A., <i>Farningham, Kent.</i>
410	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.</i>
411	1889. Jan.	SNELL, Alfred W., A.R.I.B.A., 1, <i>Park Road, Wimbledon.</i>
213	1889. Apr.	SOUTHAM, Arthur, ASSOC.M.INST.C.E., 60, <i>Old Town, Clapham.</i>
274	1888. Oct.	STAINTHORPE, W. Waters, M.D., D.P.H.EDIN., <i>Saltburn-by-the-Sea.</i>
723	1892. Sept.	†STANBURY, W. H., <i>Royal Engineer's Office, Freetown, Sierra Leone, W. Coast of Africa.</i>
275	1888. Oct.	STANSFIELD-BRUN, J., F.R.I.B.A., <i>District Surveyor, Bradford-on-Avon.</i>
412	1889. Apr.	STEEL, William D., M.D., M.O.H., D.P.H., <i>Neville Street, Abergavenny.</i>
413	1889. Mar.	STEEVES, 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.O.S., 6, <i>Drapers Gardens, E.C., (14, Marilla Gardens, Notting Hill, W.).</i>
602	1890. Oct.	STEVENS, Joseph Wallace, <i>Belph, Whitwell, near Chesterfield.</i>
277	1888. Oct.	STEVENSON, Thomas, M.D., 45, <i>Gresham Road, S.W.</i>
414	1889. Mar.	STEWART, Alan, <i>Maldon, Essex.</i>
415	1889. Jan.	STIFF, Ebenezer, <i>London Pottery, Lambeth.</i>
278	1888. Oct.	STONE, W. H., <i>Lea Park, Godalming.</i>
279	1888. Oct.	STREET, William C., A.R.I.B.A., ASSOC.INST.C.E., 7, <i>Victoria Street, Westminster, S.W.</i>
416	1888. Dec.	SUDELEY, RIGHT HON. LORD, 7, <i>Buckingham Gate, S.W.</i>
417	1889. Jan.	†SWAINSON, John Henry, M.S.A., ASSOC.M.INST.C.E., 59, <i>Hope Street, Wrexham.</i>
418	1889. Jan.	†SWAN, Harold, 114, <i>Trinity Road, Upper Tooting.</i>
419	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>
420	1889. Mar.	SYKES, Matthew Carrington, L.R.C.P., M.R.C.S., D.P.H., <i>Barnsley.</i>
284	1888. Oct.	†TATTERSALL, W., 90, <i>Arden Terrace, Accrington.</i>
287	1888. Oct.	TAYLOR, Charles, M.R.C.S., L.S.A., 3, <i>Lorraine Road, Holloway, N.</i>
421	1889. Jan.	TAYLOR, Wm. Fredk., M.D., M.R.C.S., L.S.A., <i>Brisbane, Queensland.</i>
288	1888. Oct.	TEALE, T. Pridgin, M.A., M.B., F.R.C.S., F.R.S., 38, <i>Cookridge Street, Leeds.</i>

Reg. No.	Date of Election.	
724	1892. Oct.	THOMAS, John, ASSOC.M.INST.C.E., <i>Engineer, Swansea R.S.A., 14, Finsbury Terrace, Swansea.</i>
289	1888. Oct.	THOMAS, Walter, ASSOC.M.INST.C.E., <i>Castleknowie, and Town Hall, Dover.</i>
290	1888. Oct.	†THOMAS, W. E. C., ASSOC.M.INST.C.E., <i>"Cringallt," Neath.</i>
422	1891. Mar.	THOMPSON, George William, ASSOC.M.INST.C.E., 36, <i>Wood Vale, Forest Hill, S.E.</i>
423	1889. Feb.	THOMPSON, Thomas William, L.R.C.P., M.R.C.S., D.P.H., M.O.H., <i>Med. Inspr., Local Government Board, S.W.</i>
502	1890. June.	†THOMSON, Gilbert, 75, <i>Bath Street, Glasgow.</i>
711	1888. Oct.	THORNEYCROFT, LIEUT.-COL., <i>Tottenhall Towers, Wolverhampton.</i>
292	1888. Oct.	THORNLEY, J. E., <i>Lyndon, Bickenhill, Birmingham.</i>
503	1890. Jan.	THRESH, John Clough, M.D., B.S., D.SC., F.I.C., F.C.S., M.O.H., <i>Chelmsford.</i>
424	1889. Jan.	THRING, RIGHT HON. LORD, K.C.B., F.R.G.S., 5, <i>Queen's Gate Gardens, S.W.</i>
504	1889. July.	THURSFIELD, W. N., M.D., D.P.H., M.O.H., <i>Shrewsbury.</i>
608	1888. Dec.	TITMAS, William, 34, <i>Grafton Street, W.C.</i>
609	1892. Feb.	†TOWNSEND, John Walter, <i>"Wendreda," Lancaster Road, Wimbledon.</i>
293	1888. Oct.	TRAYERS, William, M.D., F.R.C.S., 2, <i>Phillimore Gardens, W.</i>
425	1888. Dec.	TREW, J. Fletcher, 12, <i>Clarence Street, Gloucester, (22, Broad Street, Bristol).</i>
426	1888. Oct.	TYNDAL, Walter Clifford, ASSOC.M.INST.C.E., <i>Horse Guards, Whitehall, S.W., (St. Stephen's Road, Ealing).</i>
427	1889. Mar.	UNDERHILL, A. S., M.B., B.A., M.R.C.S., D.P.H., <i>Great Bridge, Tipton.</i>
294	1888. Oct.	VALON, William A., ASSOC.M.INST.C.E., 140, <i>Temple Chambers, Temple Avenue, E.C.</i>
610	1892. Mar.	VERDON, H. Walter, M.D., F.R.C.S., M.O.H., 47, <i>Briaton Hill, S.W.</i>
300	1888. Oct.	WAKEFIELD, Miss E. M., <i>Broughton, Longdon, Rugby.</i>
703	1888. Oct.	WALLACE, William, 27A, <i>Old Bond Street, W.</i>
505	1890. Oct.	†WALLIS, Arthur Gray, <i>Care of West of Scotland Sanitary Association, 75, St. George's Place, Glasgow.</i>
304	1888. Oct.	WALLIS, H. Sowerby, F.R.MET.SOC., 25, <i>Northwood Road, Highgate, N.</i>
506	1890. Apr.	WALLIS, Isabel White, 49, <i>Clifton Hill, St. John's Wood, N.W.</i>
704	1892. Apr.	WALTON, Rienzi G., M.INST.C.E., 2, <i>Lexham Gardens, Kensington, S.W.</i>

Reg. No.	Date of Election.	
647	1891. Nov.	WARD, Arthur W., <i>Lisburn, Merton Road, Southsea.</i>
648	1891. Dec.	WATSON, John Duncan, ASSOC. M. INST. C.E., <i>County Buildings, Aberdeen.</i>
649	1889. Jan.	WELCH, Henry, M.D., B.Sc., D.P.H. EDIN., <i>Sheffields, Hutton, Lancaster.</i>
650	1888. Nov.	WELLS, Sir T. Spencer, BART., M.D., F.R.C.S., 3, <i>Upper Grosvenor Street, W.</i>
701	1892. Nov.	WETWAN, William Albert, M.R.C.S., L.S.A., <i>Medical Officer of Health for Bridlington, 9, Prospect Street, Bridlington Quay, Yorkshire (East Riding).</i>
651	1890. Nov.	WHEELER, Charles, 12, <i>Dorset Villa, Wood Green.</i>
652	1891. Nov.	WHITAKER, William, B.A., F.R.S., F.G.S., 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>
654	1888. Oct.	WHITE, William, F.S.A., F.R.I.B.A., 30a, <i>Wimpole Street, W.</i>
655	1889. Apr.	WIGHTWICK, Fallon Percy, M.B., M.R.C.S., L.R.C.P., D.P.H., <i>St. John's, Horsleydown, S.E.</i>
656	1888. Oct.	WILKINSON, W. B., <i>Northumberland Street, Newcastle-on-Tyne.</i>
657	1888. Oct.	†WILKINSON, William, <i>Town Hall, Salford, (20, Alden Street).</i>
658	1888. Oct.	WILLIAMS, C. Theodore, M.A., M.D., F.R.C.P., F.R.MET. SOC., 2, <i>Upper Brook Street, W.</i>
713	1892. June.	WILLIAMS, Owen, <i>Surveyor, Aberdare, Glamorgan.</i>
659	1891. Dec.	WILLIAMS, Roscoe A., M.D., <i>State Board of Health, Olathe, Kansas, U.S.A.</i>
660	1889. Dec.	WILLIAMS, William, M.A., M.B., D.P.H. OXON, M.R.C.S., L.S.A., 2, <i>Southfields, Dolgelly, South Wales.</i>
704	1892. Oct.	†WILLIAMS, William Hynd, <i>Pentregarth, Aberystwyth.</i>
661	1889. Apr.	WILLIS, George, L.F.P.S.G., M.O.H., <i>Clifton House, Baillieston, Glasgow.</i>
712	1892. June.	WILLIS, John, <i>Frances Road, Windsor.</i>
662	1888. Oct.	†WILSON, J. B., <i>Court House, Cockermouth.</i>
717	1892. Oct.	†WILSON, John Allen, 18, <i>Rodney Terrace, Cheltenham.</i>
674	1892. Jan.	WINDLE, Jabez Davenport, M.R.C.S., L.R.C.P., M.O.H., <i>Chippenham Lodge, Southall.</i>
663	1888. Oct.	WITHERS, J. B. Mitchell, F.R.I.B.A., 73, <i>Surrey Street, Sheffield.</i>
664	1888. Oct.	†WITTS, J. W., M.S.E., <i>Borough Engineer's Office, Leeds.</i>
665	1888. Oct.	WOOD, Jacob, <i>Highbury Park, N.</i>
666	1888. Nov.	WOOD, William, M.D., 99, <i>Harley Street, W.</i>
667	1889. Mar.	WOODMAN, John, M.D., F.R.C.S., M.O.H., <i>Southernhay, Exeter.</i>

Reg. No.	Date of Election.	
668	1888. Oct.	WOODWARD, Edward Francis, 43, <i>Southwell Street, Bristol.</i>
669	1889. Jan.	†WORTH, John Edward, ASSOC. M. INST. C.E., F.R.MET. SOC., <i>Coombes Croft House, High Road, Tottenham.</i>
670	1888. Oct.	WYNDHAM, Rev. Francis M., M.A. OXON, <i>St. Mary of the Angels, Westmoreland Road, Bayswater.</i>
671	1888. Oct.	YULL, W., ASSOC. M. INST. C.E., 3, <i>Fenchurch Avenue, E.C.</i>

ASSOCIATES (ASSOC. SAN. INST.)

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

672	1888. Oct.	†ABRAMS, Henry, 5, <i>Westmoreland Road, Bromley, Kent.</i>
673	1892. Sept.	†ACKERNLEY, Joseph, <i>Broughton Road, Skipton, York.</i>
674	1889. Nov.	†ADAMS, Albert E., <i>Local Board Offices, Wood Green.</i>
675	1888. Oct.	†ADAMS, H. J., 13, <i>Salcott Road, Wandsworth Common S.W.</i>
676	1888. Oct.	ADAMS, Miss Rose (LADIES' SANITARY ASSOCIATION), 22, <i>Berners Street, Oxford Street, W.</i>
677	1892. Nov.	†ALLEN, Thomas Holtan, <i>Stumpshaw, Norfolk.</i>
678	1889. Jan.	†ALLEN, William Henry, 22, <i>Maira Street, Cardiff.</i>
679	1890. Nov.	†AMOR, Alfred, <i>Octagon Chambers, Nelson Street, Bath.</i>
680	1888. Oct.	†AMOR, Daniel C., "Beaulieu," <i>The Polygon, Southampton.</i>
681	1892. Oct.	†ANDERSON, George Hart, 33, <i>Borough Road West, Middlesborough.</i>
682	1889. May.	†ANDERSON, Tom, 32, <i>Harrington Street, Hampstead Road, N.W.</i>
683	1892. Feb.	†ANDREWS, Daniel James, <i>Court House, Marylebone.</i>
684	1890. July.	ANNETT, William Fenn, 5, <i>Church Street, Kensington.</i>
685	1892. Feb.	†ANTHONY, Frederick Joseph, 33, <i>Yattam St., Bromley, E.</i>
686	1892. Sept.	†ARMITAGE, Fredk. Lincoln, <i>Upper Spring Street, Huddersfield, York.</i>
687	1892. Sept.	†ARMITAGE, T. Albert, <i>South Parade, Huddersfield, York.</i>
688	1891. Apr.	†ASHDOWN, Thomas, 22, <i>Charlwood Street, Pimlico, S.W.</i>
689	1892. Feb.	†ATHEY, Frederick, 47, <i>Penge Road, South Norwood.</i>
690	1892. June.	†ATKINS, Benjamin, 31, <i>Russell Street, Leamington Spa.</i>

Reg. No.	Date of Election.	
507	1892. May.	†ATKINS, Robert William, 32, <i>Holmwood Road, South Norwood.</i>
541	1892. May.	†ATKINSON, Thomas Appleton, <i>Sanitary Inspector, Darlington.</i>
607	1892. June.	†ATTRIDGE, Henry L., <i>Sanitary Engineer, Sea Point, Cape Town, South Africa.</i>
503	1892. Feb.	†AYLIFFE, Charles William Loveless, <i>Vine Cottage, Ascot.</i>
200	1889. July.	†BAILEY, William, 74, <i>Wilmslow Road, Withington, Manchester.</i>
141	1889. June.	†BAINTON, John, <i>Scunthorpe, Doncaster.</i>
164	1889. Apr.	†BAKER, William, MEM. SOC. ARTS, 1, <i>Chetwynd Road, Lawrence Road, Southsea.</i>
113	1892. Feb.	†BAKER, William Kirkham, <i>The Infectious Hospital, Mill Road, Cambridge.</i>
615	1892. Sept.	†BALDWIN, Parkinson, <i>Farnhill, Kildwick, via Keighley, Yorkshire.</i>
211	1890. Feb.	†BALSTER, Herbert, <i>Town Hall, Margate.</i>
5	1888. Oct.	†BAMLETT, Adam Carlisle, <i>Thirsk, Yorkshire.</i>
106	1889. Jan.	†BARFOOT, James, 100, <i>Brook Street, Kennington Road, Lambeth, S.E.</i>
6	1888. Oct.	†BARRON, John, 81, <i>Landor Road, Stockwell, S.W.</i>
337	1891. Feb.	†BARTLETT, William John, 50, <i>Cumming Street, E.C.</i>
7	1888. Oct.	†BASCOMBE, H. C., <i>Wallasey Local Board, Egremont, Cheshire.</i>
105	1889. June.	†BASSETT, William Joshua, 16, <i>Elizabeth Street, Eaton Square, S.W.</i>
604	1892. June.	†BATES, Matthew, <i>Local Board Offices, Bromley, Kent.</i>
203	1890. Apr.	†BAXTER, Frank E., 374, <i>Kennington Road, S.E.</i>
9	1888. Oct.	†BAXTER, John, 374, <i>Kennington Road, S.E.</i>
107	1889. Jan.	†BECK, William Coker, <i>Hastings.</i>
179	1891. Dec.	†BEECH, James, <i>Ivy Cottage, Brownhills, Tunstall.</i>
142	1889. June.	†BIRCH, John Ernest William, 107, <i>Cobden Road, South Norwood, S.E.</i>
493	1892. Jan.	†BIRD, Sidney James, <i>H. M. Convict Prison, Portland, Dorset.</i>
247	1890. May.	†BIRD, William Frederick, <i>The Island, Midsomer Norton.</i>
313	1890. July.	†BISHOP, William F., 8, <i>Francis Place, Nine Tree Hill, Bristol.</i>
10	1888. Oct.	†BLACK, Andrew E., 57, <i>Academy Street, Inverness, N.B.</i>
101	1891. May.	†BLACKMAN, Henry, <i>Catsfield, Battle.</i>
59	1888. Dec.	†BLAKE, E. T., M.D., 47, <i>Seymour St., Hyde Park, W.</i>
373	1891. Mar.	†BLAKE, H. K., 1, <i>Victoria Road, Stroud Green, N.</i>
193	1889. June.	†BLAND, William, 420, <i>Liverpool Road, Patricroft.</i>
631	1892. Sept.	†BOLTON, Joseph, 15, <i>Cambridge Terrace, Otley, York.</i>
231	1890. Jan.	†BOND, William Henry, <i>St. Giles Board of Works, Holborn, W.C.</i>
12	1888. Oct.	†BOSTEL, G. Stanford, 18, <i>Duke Street, Brighton.</i>

Reg. No.	Date of Election.	
102	1891. Apr.	†BOURNE, Edward, 256, <i>High Street, Cheltenham.</i>
10	1889. Jan.	†BOVEY, William T., <i>Acton, W.</i>
200	1889. July.	†BOWYER, Harry David, <i>Park Street, Slough.</i>
13	1888. Oct.	†BOYCE, W., 117, <i>High Street, Poplar, E.</i>
14	1888. Oct.	†BOYD, Richard Wade, 105, <i>New Bond Street, W.</i>
322	1891. Mar.	†BRALEY, Francis, 18, <i>Woodbine Avenue, Leicester.</i>
110	1892. June.	†BRAMHAM, William, <i>Fern Cottage, Market Street, Clay Cross.</i>
13	1888. Oct.	†BREEZE, John, <i>Poynton Lodge, Wellington, Salop.</i>
35	1891. Feb.	†BRINDLE, Thomas, 12, <i>Ashfield Road, Chorley.</i>
14	1888. Oct.	†BROAD, Clement B., <i>Stamford Brook Lodge, Ravenscourt Park, W.</i>
300	1891. Apr.	†BROADHEAD, S., 24, <i>St. James' Street, Humberstone Gate, Leicester.</i>
333	1890. Nov.	†BROOK, John, <i>Albany Place, Stratford-on-Avon.</i>
33	1890. Nov.	†BROUGHTON, Thomas, <i>Garston, near Liverpool.</i>
30	1891. Apr.	†BROWN, George William, SERG.-MAJ. R.E., 3, <i>Marle Hill Villas, Cheltenham.</i>
330	1891. Feb.	†BROWN, John, 8, <i>Paddock, Whithy.</i>
370	1892. May.	†BROWN, Reginald, <i>Local Board, Office, Ealing, Middlesex.</i>
374	1892. May.	†BROWN, Robert Frederick, 130, <i>Devonshire Street, Mile End.</i>
510	1892. May.	†BROWN, Robert, Jun., 44, <i>St. Ann's Hill, Wandsworth.</i>
17	1888. Oct.	†BROWN, R. Railston, 1, <i>Blenheim Terrace, Bridlington Quay, Yorkshire.</i>
18	1888. Oct.	†BROWN, W. E., 19, <i>Harelock Road, Hastings.</i>
220	1890. Jan.	†BRYAN, George John, 4, <i>South Norwood Hill, S.E.</i>
400	1892. Jan.	†BRYAN, Joseph James, 27, <i>Oxford Street, Old Trafford, Manchester.</i>
113	1891. June.	†BUBB, John Thomas, 1, <i>James's Parade, Bristol.</i>
19	1888. Oct.	†BUCHAN, W. Paton, <i>Fairlyknowe, Cambuslang, Lanarkshire, N.B.</i>
20	1888. Oct.	†BUCKERIDGE, Walter, 5, <i>Alexander Street, Westbourne Park, W.</i>
21	1888. Oct.	†BUGLER, W. J., <i>Alpha House, Putney.</i>
101	1888. Dec.	†BURN, Robert G. N., 24, <i>Charing Cross, S.W.</i>
22	1888. Oct.	†BURROUGHS, S. M., <i>Snow Hill Buildings, E.C.</i>
210	1889. Oct.	†BURSCOUGH, Frederick Peter, 42, <i>Belmont Avenue, Blackpool.</i>
321	1892. Feb.	†BURSLAM, Randle, <i>Congleton, Cheshire.</i>
333	1891. Apr.	†BURTON, W. H., 59, <i>Avenue Road, North Finchley.</i>
392	1892. May.	†BUTCHER, Charles Ernest, 17, <i>Circus Road, St. John's Wood, N.W.</i>
174	1889. May.	†BUTLAND, R. J., <i>Vestry Hall, Mount Street, W.</i>
300	1891. Mar.	†BUTLER, Walter, <i>Parcham, Hants.</i>
207	1890. Apr.	†BUTTERWORTH, Arthur, <i>Board of Works, Maxey Road, Plumstead.</i>
112	1889. Feb.	†BUXTON, Anthony, <i>Carisbroke, Isle of Wight.</i>

Reg. No.	Date of Election.	
211	1890. Feb.	†CALLAWAY, Albert Henry, <i>Grosvenor Villa Evesham Place, Stratford-on-Avon.</i>
611	1892. Oct.	†CANNELL, Charles Stephen, 32, <i>Knowsley Road, Magdalen Road, Norwich.</i>
120	1891. June.	†CARTER, Alfred, 71, <i>Leighton Road, Kentish Town.</i>
121	1891. July.	†CARY, Aquilla S., 1, <i>Lily Villas, New Southgate.</i>
111	1892. May.	†CASS, Robert William, 27, <i>Park Avenue, Church Lane, Pudsey.</i>
21	1888. Oct.	†CATTEN, Joseph H., 32, <i>Exeter Street, Sloane Street, S.W.</i>
130	1892. Feb.	†CAVE, James, <i>Town Hall, Kensington.</i>
611	1892. Dec.	†CHALK, Joseph, <i>Waterworks Engineer's Office, Southampton.</i>
118	1891. Nov.	†CHALLOXER, William, <i>Blackpool, Lancaster.</i>
624	1892. Sept.	†CHAMBERS, Frederick, <i>Local Board Offices, Goole, Yorkshire.</i>
121	1892. Feb.	†CHAMBERS, Matthew, <i>Millhouses, Sheffield.</i>
120	1889. Apr.	†CHANEY, William H., 36, <i>Essex Street, Strand.</i>
111	1892. Mar.	†CHAPPELL, William, 96, <i>Grove Road, Holloway.</i>
111	1891. Nov.	†CHESHIRE, Alfred, 64, <i>Church Street, Rugby.</i>
111	1892. Jan.	†CLARKE, Robert Edwyn, 5, <i>Gibson Square, Islington, N.</i>
21	1888. Oct.	†CLARKSON, Joseph, <i>Churchfield Terrace, Batley, Yorks.</i>
110	1889. Jan.	†CLAYTON, Edward, <i>Mansfield, Notts.</i>
211	1890. June.	†CLIFTON, Henry Chas., 50, <i>Porchester Road, Bayswater.</i>
21	1888. Oct.	†COHAM, C., <i>The Shrubbery, Gravesend.</i>
27	1888. Oct.	†COHAM, G. R., 3, <i>Edwin Street, Gravesend.</i>
211	1890. Apr.	†COCKBURN, Henry Mace, <i>Town Hall, Spa Road, S.E.</i>
111	1891. Jan.	†COLE, A. C., 21, <i>West Street, Dorking.</i>
120	1892. Feb.	†COLES, John Thomas, 18, <i>St. George's Road, Winsford.</i>
111	1891. July.	†COLLINS, Henry Beale, 16, <i>Little Grosvenor Street, W.</i>
111	1891. Dec.	†COLLYER, J., <i>Uttoxeter, Stafford.</i>
111	1892. Apr.	†COOK, Alfred, 103, <i>Commercial Street, E.</i>
111	1891. Nov.	†COOK, James, <i>Warton, near Curnforth.</i>
111	1892. June.	†COOK, William George, <i>Weatherall Cottage, Well Road, Hampstead.</i>
111	1890. Dec.	†COOK, William Gough, "Enmore," <i>The Grove, Clapham Road, S.W.</i>
111	1889. Feb.	†COOPER, William George, <i>Sanitary Inspector, Bournemouth.</i>
221	1890. Jan.	†COPESTICK, George Christopher, 47, <i>Bateman Street, Derby.</i>
220	1890. Jan.	†CORBETT, Richard Lawrence, <i>Oakengates, Salop.</i>
111	1892. Mar.	†CORBY, Thomas, 13, <i>Rochester Road, Camden Road, N.W.</i>
111	1889. Jan.	†CORDON, Robert Curtis, <i>Hillside Cottage, Duffield, Derby.</i>

Reg. No.	Date of Election.	
111	1891. June.	†CORP, James, 16, <i>Harrington Square, N.W.</i>
111	1889. Mar.	†COTTLE, Arthur Thomas, <i>Selly Oak, Near Birmingham.</i>
111	1890. Mar.	†COURT, Thomas Henry, 103, <i>King's Road, Peckham, (140, Tanners Hill, Deptford).</i>
111	1891. Oct.	†COWDEROY, John Tatem, <i>Kidderminster, Worcester.</i>
111	1889. Jan.	†COWPER, Joseph, 181, <i>Brixton Road.</i>
111	1891. Jan.	†COXILL, George E., <i>Vestry Hall, Cable Street, E.</i>
111	1892. Jan.	†CRABBE, W. G., 44, <i>St. Lawrence Road, Brixton.</i>
111	1891. June.	†CRANE, Joseph, 93, <i>Trafalgar Road, Gorleston, Great Yarmouth.</i>
61	1892. Nov.	†CRANE, Stephen, 8, <i>Dighton Road, Wandsworth, Surrey.</i>
111	1891. Feb.	†CRANE, William Henry, 14, <i>Colonial Street, Hull.</i>
111	1890. June.	†CROCKER, Thomas William, <i>Borough of West Ham.</i>
111	1889. June.	†CROCKWELL, George E., 14, <i>Church Street, Ilfracombe.</i>
111	1892. May.	†CROFTS, Thomas John, 50, <i>Central Street, Landport, Portsmouth.</i>
111	1888. Oct.	†CROGHAN, Thomas Andrew, 37, <i>Devonshire Gardens, Burton.</i>
111	1891. Mar.	†CROOK, Wm. Robert, <i>Cranford House, Cranford, Hounslow.</i>
111	1890. Feb.	†CROSSE, Hammond William, <i>St. Mary's Cottage, Putney.</i>
111	1890. Feb.	†CROSSLEY, James, 1, <i>Maurice Street, Bolton Road, Pendleton.</i>
111	1890. Jan.	†CROWTHER, William Christopher, 51, <i>Hind Street, Stockton-on-Tees.</i>
111	1892. May.	†CRUDEN, John, <i>Berwick-upon-Tweed.</i>
111	1891. Feb.	†CULVER, Thomas Henry, 34, <i>Bradstone Avenue, Folkestone, Kent.</i>
111	1892. June.	†CURRIE, Thomas, <i>Marshall Cottage, Hawkhill, Ayr.</i>
111	1891. June.	†DALE, Duncan, 312, <i>Camberwell New Road, S.E.</i>
111	1891. Dec.	†DALTON, George, 15, <i>Histon Road, Cambridge.</i>
111	1889. June.	†DALTRY, John, <i>Sanitary Inspector, Wellington, Salop.</i>
111	1892. June.	†DANE, Samuel, <i>Bird Nest Cottage, Primrose Lane, Glossop.</i>
111	1888. Oct.	†DARLEY, George, 49, <i>St. Marks Street, Woodhouse, Leeds.</i>
111	1892. May.	†DAVID, Philip, 23, <i>North Luton Place, Cardiff.</i>
111	1892. Oct.	†DAVIES, Dan, <i>Ferndale, Rhondda Valley, Glamorgan.</i>
111	1890. May.	†DAVIES, T. Lane, 1, <i>Albert Square, E.</i>
111	1892. May.	†DAWSON, Edward Howard, 41, <i>Market Street, Lancaster.</i>
111	1891. June.	†DAWSON, John Marshall, 93, <i>Malpas Road, Brockley.</i>
111	1890. June.	†DAWSON, William, 6, <i>Brooklands Road, Birkenhead.</i>
111	1890. Mar.	†DEAN, Samuel Saunders, <i>Hugglescote, Ashby-de-la-Zouch.</i>
111	1890. June.	†DEE, Thomas George, 17, <i>Grosvenor Road, S.W.</i>
111	1892. Oct.	†DENHAM, Hodgson, <i>Aberford, near Leeds.</i>

Reg. No.	Date of Election.	
100	1888. Dec.	DENSHAM, Charles A., 42, Wellington Road, St. John's Wood, N.W.
621	1892. July.	DEWHURST, James, Sanitary Inspector's Office, Plymouth.
270	1890. May.	DICK, William, Kirknewton, Midlothian.
152	1891. Dec.	DOCKING, Frederick Reynolds, 56, George Street, Croydon.
633	1892. Oct.	DODGSON, William, Cononley, York.
231	1890. Jan.	DOVER, John Henry, 13, King Street, Kensington Square, W.
101	1891. Nov.	DOWSING, Alfred, 2, Mawney's Villas, Romford.
111	1889. Jan.	DRAKE, W. Medley, Kirkheaton, Huddersfield.
103	1889. June.	DUCK, Albert George, 211, Tooley Street, Horsleydown, S.E.
211	1890. Feb.	DUNBAR, David.
150	1891. Nov.	DUTHIE, Alexander, 93, High Street, Brechin, N.B.
113	1889. Feb.	DYER, Samuel, 3, Wellington Road, Bridlington Quay.
108	1891. June.	DYKE, Alfred William, St. John's Wharf, Wandsworth, Bridge, Fulham.
112	1889. Jan.	DYSON, John Henry, Park Terrace, Thornhill, near Deansbury.
112	1891. June.	EARWICKER, John Chas., Cambridge House, Drayton Place, Croydon, S.W.
101	1891. Nov.	ECCLES, William Henry, 98, Kay Street, Darwen.
113	1889. Jan.	EDMONDS, William H., Vestry Hall, Hampstead, N.W.
313	1890. Nov.	EDWARDS, John, 16, Gladstone Street, St. George's Rd., S.E.
306	1892. June.	ELLIS, Stanley, 28, Chertsey Street, Guildford.
31	1888. Oct.	EMPTAGE, Daniel, Dane Hill Sanitary Works, Margate.
32	1888. Oct.	EVANS, John Evan, 37, Anchor Street, Southwark Park Road, S.E.
303	1892. May.	EVANS, John Isaac, 11, Blanche Street, Cae Harris, Doulais.
200	1890. May.	EVINGTON, Charles William, 12, Bridlington Street, Hull.
31	1888. Oct.	FAIRCHILD, Samuel C. G., 569, Wandsworth Road, Clapham, S.W.
313	1891. Feb.	FAIREY, Alfred Isaac, 5, Tuvistock Street, Covent Garden.
252	1890. Mar.	FINCH, William, 44, Mason Street, Kingston-upon-Hull.
111	1889. Jan.	FINCHER, John Gazeley, Aldershot.
572	1892. May.	FISHER, Robert, 141, Greenwich Road, Greenwich, S.E.
459	1891. Nov.	FODD, Cephas, Board of Works, 117, High Street, Poplar, E.
207	1890. June.	FOLLAND, John Percy, 22, Liverpool Street, King's Cross.
31	1888. Oct.	FORDHAM, Wm. Francis, Hampton House, High Road, Kilburn.

Reg. No.	Date of Election.	
251	1890. May.	FORRESTER, William, Staplehurst, Kent.
611	1892. June.	FOSTER, Edward, 29, St. Maur Road, Fulham, S.W.
30	1888. Oct.	FRANCE, T. W. Chapman, 36, Bristol Road, Edgbaston.
218	1890. Jan.	FULCHER, George, Rural Sanitary District, Rugby.
30	1888. Oct.	GAIRDNER, PROF. W. T., M.D., LL.D., The University, Glasgow.
30	1888. Nov.	GARDNER, C. T., Town Hall, Worthing.
37	1888. Oct.	GARLAND, Wm., 12, Higher Maudlin Street, Barnstaple.
613	1892. June.	GARNHAM, Albert Edward, Beulah Hill, Norwood, S.E.
30	1888. Oct.	GASS, John Bradshaw, F.R.I.B.A., 19, Silverwell Street, Bolton.
103	1889. June.	GATHERCOLE, William Henry Joseph, Sanitary Inspector, Guildhall, E.C.
301	1892. Mar.	GERRARD, John, 43, Woolton St., Woolton, Liverpool.
200	1890. Mar.	GIBSON, John, Health Offices, North Church Street, Sheffield.
118	1889. Mar.	GILBEART, John Joseph, 11 & 12, Little Chester Street, Belgrave Square, W.
217	1890. Jan.	GILLES, Neill, Lochgilphead, Argyllshire, N.B.
018	1891. June.	GILLESPIE, REV. Charles George Knox, 2, Darwin Terrace, Derby.
304	1891. April.	GODSALL, Henry John, Park Road, Salfrey, Birmingham.
601	1892. June.	GOLDER, Thomas Collings, 5, Connaught Road, Folkestone.
303	1892. Feb.	GOODMAN, Herbert, 4, Clapton Common, N.E.
30	1888. Oct.	GOODWYN, Arthur Ayde, 34, Church Road, Richmond, Surrey.
312	1892. Feb.	GORNIOT, Thomas Arthur, 98, Binyfield Street, York Road, King's Cross.
300	1891. Feb.	GOUGH, Joseph, 7, Malvern Terrace, St. Paul's Road, Tottenham.
171	1891. Nov.	GRANT, Alexander, Town Hall, Chelsea.
113	1889. Jan.	GRANT, Walter, 18, Gildredge Road, Eastbourne.
332	1890. Nov.	GRAVES, Matthew Dodgson, 7½, College Street, York.
123	1891. July.	GREEN, Edward Albert, 16, Rock Street, Bridge-houses, Sheffield.
301	1891. Feb.	GREEN, William, 6, Meredith Street, Clerkenwell, E.C.
157	1889. June.	GREENWELL, Allan, Surveyor's Office, Frome.
10	1888. Oct.	GRIFFIN, Miss Sarah C., 11, Willswood Park, Torquay.
330	1892. Mar.	GRIFFIN, George Frederick Augustus, Nottingham Road, Mansfield.
332	1891. Feb.	GRIFFIN, William Henry, 2, Acford Road, South Fulham, S.W.
302	1890. June.	GRINHAM, Philip Boys, Tichborne Down, Alresford.
419	1891. June.	GRIVELL, Elias James, Storrington, Sussex.

Reg. No.	Date of Election.	
1890.	June.	†GROOM, William Edwin, 117, <i>Wells Street, Camberwell.</i>
1888.	Oct.	†GRYS, Alexander, 118, <i>King Street, Aberdeen.</i>
1890.	Jan.	†HALL, George Berringer, F.G.S., 10, <i>Waldemar Avenue, Fulham Road.</i>
1892.	Oct.	†HALL, John, <i>Poundfield, Stonchouse, Gloucester.</i>
1892.	Sept.	†HALL, Thomas John, 17, <i>Regent Street, Burnstey, Yorkshire.</i>
1892.	Sept.	†HAMMOND, William Henry, <i>South Parade, Horbury, near Wakefield, Yorkshire.</i>
1891.	June.	†HARPER, Frank, 39, <i>Derby Road, Northampton.</i>
1889.	June.	†HARRISON, George, <i>Thurnly, Leicester.</i>
1891.	Mar.	†HARRISON, Wm. Henry, <i>Health Offices, Sheffield.</i>
1888.	Oct.	†HARRISON, Wm. L., 7, <i>Dock Street, Hull.</i>
1888.	Oct.	†HART, W. S., 29, <i>Coley Hill, Reading.</i>
1891.	Mar.	†HARTSOLL, Francis, 49, <i>St. Paul's Road, Bardett Road, E.</i>
1891.	Oct.	†HATTON, Chas., 14, <i>Merton Road, Wandsworth, S.W.</i>
1890.	Jan.	†HAY, Alexander, 56, <i>George Square, Glasgow.</i>
1888.	Oct.	†HEAD, Robert H., 7, <i>Upper Baker Street, N.W.</i>
1891.	Nov.	†HEAPS, William, Junr., 28, <i>Parker Street, Chorley, Lancashire.</i>
1888.	Oct.	†HEARN, Walter, 62, <i>Grove Park Terrace, Grove Park, Chiswick, W., (27, Mecklenburgh Square, W.C.).</i>
1888.	Oct.	†HEARNE, William, <i>Buenos Ayres.</i>
1892.	Mar.	†HEBDEX, Joseph Henry, 1, <i>Eton Street, Hesse Road, Hull.</i>
1889.	June.	†HELSDON, Horace, 14, <i>St. Edmunds Terrace, Primrose Hill, N.W.</i>
1892.	May.	†HENLEY, Amos S., <i>Camberwell Workhouse, Willow Brook Road, Peckham.</i>
1891.	Feb.	†HENNES, Alfred, 37, <i>Joseph Street, Gosport.</i>
1891.	Nov.	†HERBERT, Harry, 10, <i>Boughton Street, Sunderland.</i>
1892.	Mar.	†HIGH, George Fred., 28, <i>Clifden Road, Lower Clapton.</i>
1890.	Mar.	†HILLS, Arthur Reginald, 24, <i>Harley Street, Bow, E.</i>
1888.	Dec.	†HOBBS, W. F., 36, <i>Melbourne Street, Stalybridge.</i>
1890.	Mar.	†HODGES, Albert, 57, <i>Hall Street, Blakenhall, Wolverhampton.</i>
1890.	May.	†HOLLAND, Percy, <i>Fairstead Cottage, Newmarket.</i>
1892.	Sept.	†HOLMES, John Edward, <i>North Collingham, Newark.</i>
1889.	June.	†HOLMES, William, 43, <i>Thornhill Street, Wakefield, Yorkshire.</i>
1889.	June.	†HOOPER, Thomas Rowland, <i>Redhill, Surrey.</i>
1890.	Jan.	†HOOPER, William, 8, <i>Lucas Road, St. John's Road, Penze, S.E.</i>
1892.	Feb.	†HORLOCK, Charles William, <i>Little Orsted, Uckfield.</i>
1888.	Oct.	†HORNCastle, Henry, <i>Ash Lawn, Hamlet Road, Upper Norwood, S.E.</i>

Reg. No.	Date of Election.	
1891.	Nov.	†HORNER, Benjamin Roper, 2, <i>St. Stephen's Terrace, West Bowling, Bradford, Yorks.</i>
1888.	Oct.	†HORROCKS, Joseph, 10, <i>Union Street, Southport.</i>
1891.	Nov.	†HORSMAN, Charles Edwin, 8, <i>Bedford Square, Bishopwearmouth, Sunderland.</i>
1892.	Feb.	†HORTON, Richard, 8, <i>Orford Street, Chelsea, S.W.</i>
1892.	May.	†HORRAN, William, 22, <i>Halsey Street, Chelsea.</i>
1889.	Jan.	†HORTHON, Robert Alfred, 5, <i>Merton Hall Road, Wimbledon.</i>
1890.	Nov.	†HUGHES, Edward J., 102, <i>Camden Street, Birkenhead.</i>
1891.	Nov.	†HUGHES, Walter, <i>Thompson Street, Bilston.</i>
1892.	Nov.	†HUNT, William Edward, 1, <i>Ashmead Road, St. John's, S.E., Kent.</i>
1892.	May.	†HUTCHINGS, William Arthur, 15, <i>St. John's Park Terrace, Winchester.</i>
1892.	Nov.	†ILES, Alfred Robert, <i>Sanitary Engineer, 102, Flaxman Road, Camberwell.</i>
1890.	Jan.	†IMRIE, Henry William, 28, <i>Parry Place, Plumstead.</i>
1890.	Feb.	†INGRAM, William Jones, <i>Goldsworth Road, Woking.</i>
1891.	Dec.	†INSKIP, Frederick Thomas, <i>Delhorne, Stoke-on-Trent.</i>
1892.	Mar.	†IRVING, William, <i>Local Board, Wigton.</i>
1892.	June.	†JACKLING, William, <i>Maidstone.</i>
1890.	Feb.	†JACOB, Oswald, <i>Sanitary Inspector, Feltham, Middlesex.</i>
1891.	Feb.	†JACKSON, Henry James, 4, <i>Corn Street, Witney.</i>
1891.	Oct.	†JACKSON, William, 335, <i>Glossop Road, Sheffield.</i>
1891.	Oct.	†JARVEY, George, <i>Town Hall, Salford.</i>
1889.	Feb.	†JASPER, Robert Wevill, <i>Withersfield Road, Haverhill, Suffolk.</i>
1890.	Jan.	†JELLIS, John, 188, <i>Uttoreter Old Road, Derby.</i>
1889.	July.	†JENNER, Richard Messenger, <i>Parade Road, Sandgate.</i>
1891.	Feb.	†JOHNSON, H. Watts,
1890.	May.	†JOHNSON, John William, 785, <i>Commercial Road, Limchouse, E.</i>
1890.	Nov.	†JOHNSON, Joseph Edward, <i>Town Hall, Hull.</i>
1891.	Nov.	†JOHNSON, Matthew, 31, <i>Palmer Street, Jarrow.</i>
1891.	Feb.	†JOHNSON, Stafford, 3, <i>Percy Road, Leytonstone.</i>
1891.	Apr.	†JONES, Charles Bristow, <i>Town Hall, Fulham.</i>
1890.	June.	†JONES, John, 40, <i>Sydney Street, Chelsea.</i>
1890.	Nov.	†JONES, Julius Morris Wilson, 27, <i>Mornington Road, Bow, E.</i>
1889.	June.	†JONES, William, <i>Cemlyn, Dolgelly, Merioneth.</i>
1890.	Mar.	†JOURS, William, <i>Gateshead.</i>
1890.	Dec.	†JURY, H. A., <i>North-East Lodge, Chelsea Bridge, Grosvenor Road, Pimlico, S.W.</i>
1888.	Oct.	†KEAL, J., <i>Southview Hill Road, Sutton, Surrey.</i>
1892.	May.	†KELF, Charles Harvey, <i>The Gardens, South Villa, Inner Circle, Regent's Park, N.W.</i>
1888.	Oct.	†KEMSLEY, Jesse, 60, <i>Chesterfield Grove, East Dulwich.</i>

- Reg. No. Date of Election.
- ³²²1892. Mar. †KENNEDY, Daniel, 19, Tremlett Grove, Junction Road, N.
- ⁴⁰⁷1891. June. †KERSHAW, Edward Baxter, 115, Wellfield Road, Streatham.
- ³²1888. Oct. †KIELL, John, 103, High Street, Barnstaple.
- ³²²1892. May. †KILGALLIN, Charles J., 108, Charing Cross Road, W.
- ¹¹¹1891. July. †KING, Albert S. W., 31, Merran Road, Briston, S. W.
- ¹¹⁰1889. Feb. †KING, Frederick William, Heybridge, Maldon, Essex.
- ³¹⁴1891. Feb. †KIRK, John Wright, Ivy Villa, Park Road, Plumstead.
- ³⁷⁰1892. May. †KIRK, William Hugh, Town Hall, Newcastle-upon-Tyne.
- ³¹1888. Oct. KITE, Charles, 31, Barronsmere Road, East Finchley.
- ²⁷¹1890. May. †KNIGHT, Robert, Junr., Dunfermline, Fife.
- ¹⁵⁰1889. Feb. †KNIGHT, William Henry, "Dulce Domum," Gishburn Road, Hornsey, N.
- ³²⁸1892. May. KNOWLES, James Edward, 9, System Street, Cardiff.
- ⁶¹³1892. June. †KNOX, Charles Geary, 60, Lordship Road, Stoke Newington.
- ⁶⁰³1892. June. †LAMPORT, Miss Ethel Frances, 55, Burton Crescent, W.C.
- ¹⁹⁹1889. June. †LANDER, James, 19, Millbank Street, Westminster.
- ⁵³1888. Oct. †LAPWORTH, J., Vestry Hall, Bethnal Green, E.
- ²¹¹1889. Nov. †LAURIE, John, 14, Poplars Avenue, Willesden Green.
- ¹⁵²1891. Nov. †LEAR, Charles F. E., Alverstoke, Hampshire.
- ¹³¹1889. Jan. †LEAR, James Walter, 122, Southgate Road, N.
- ¹⁵²1889. Mar. †LEE, James, 28, Franchise Street, Rochdale.
- ⁵⁶1888. Oct. †LEGG, S. C., 117, Powerscroft Road, Lower Clapton, N.E.
- ³¹⁶1892. Feb. †LEIGH, Frederick George, The Sanatorium, Whiston, near Prescott.
- ¹⁰²1888. Dec. †LENNOX-CLARKE, A.
- ³³⁴1891. Feb. †LEWIS, Charles, Witham, Essex.
- ¹¹⁷1889. Jan. †LEWIS, Arthur, Isham, Wellingborough.
- ³⁷1888. Oct. †LIGHTFOOT, Thos., 80, Vincent Square, Westminster.
- ²⁰¹1890. May. †LIGHTFOOT, William Charles, 86, Harbut Road, St. John's Hill, New Wandsworth, S. W.
- ²³⁵1890. Jan. †LILLY, William Gent, 5, Whitcomb Street, W.C.
- ⁵¹⁹1892. Mar. LINDLEY, Joseph, Cliffe Villa, Stancliffe, Dewsbury.
- ³¹⁹1891. Feb. †LISCOMBE, Charles F., 24, Bishop Street, Bristol.
- ³²⁴1890. Nov. †LITTLE, William, Health Office, North Church Street, Sheffield.
- ⁴³¹1891. July. †LLOYD, Christopher, 2, St. Mark's Terrace, New Brompton, Kent.
- ⁶¹⁶1892. June. †LOASBY, Frederick W., 28, Millman Street, Bedford Row, W.C.
- ²⁵⁶1890. Mar. †LOCK, G. H., 64, Richards Terrace, Roath, Cardiff.
- ⁴³⁷1891. July. †LOCKE, Walter Richard, Bedford House, Aylesbury.
- ³¹¹1891. Jan. LONGSDON, Ernest M., Surveyor, Town Hall, Bake-well.

- Reg. No. Date of Election.
- ¹⁵⁴1891. Nov. †LOWRY, John, Bradmore, Wolverhampton.
- ¹⁵⁰1892. Jan. †LOWRY, Thomas Augustus, 6, Darlington Street, Wolverhampton.
- ¹¹⁸1889. Jan. †LUKES, Arthur Henry, Town Hall, Gravesend.
- ²²⁷1890. Nov. †LUND, Clifton, 9, Bridge Street, Southport.
- ⁵⁵1888. Oct. †LUND, Jeremiah, St. James's Vestry, Piccadilly.
- ⁶²³1892. July. †LYON, James Joseph, 6, Rice Lane, Walton-on-the-Hill, Liverpool.
- ⁶¹1888. Oct. MACINTOSH, James, 38, Langham Street, W.
- ²²³1889. July. MACKAY, George Archibald D., Inspector of Cleansing, Edinburgh.
- ¹⁷¹1889. Apr. MACKAY, James John, 186, Kensal Road, W.
- ²³⁷1890. Feb. †MACLENNAN, John, Carnock House, Carnock, Dunfermline.
- ⁴⁷¹1891. Nov. †MADIN, William B., Town Hall, Leek.
- ⁴²¹1891. June. †MAGER, Frederick Walter, Rural Sanitary Authority, Durngate Street, Dorchester.
- ²⁷²1890. May. †MALCOLM, Alfred, Clayton, near Manchester.
- ¹⁵⁶1892. Feb. †MALVERN, Thomas, Winchcombe Street, Cheltenham.
- ⁴³⁷1891. Nov. †MARSDEN, William Edward, 13, Springfield Street, Darwen.
- ⁵⁴⁴1892. May. †MARTIN, Alexander William, 3, Plumstead Road, Woolwich.
- ⁵¹⁴1892. Feb. †MARTIN, Robert, 17, Wawne Street, Spring Bank, Hull.
- ⁴⁴²1891. Oct. †MARTIN, William, Junr., Glenburn, Carlisle, N.B.
- ³⁴⁵1891. Apr. †MASON, Frederick William, 22, Main Avenue, Bush Hill Park, Enfield.
- ²⁵⁴1890. Apr. MASON, Jonathan, 1, Grove Terrace, Grove Road, Leytonstone.
- ³⁵¹1891. Feb. †MASON, William Allinson, Shildon, near Darlington.
- ⁵³1888. Oct. †MATHIAS, H. D., 40, Southdown Road, Liverpool.
- ²⁰¹1892. Feb. †MATTHEWS, Frederick, Kedleston, Derby.
- ³⁷¹1891. Feb. †MATTHEWS, William, Kedleston, Derby.
- ⁵²¹1892. Feb. †MAXWELL, William Henry, Victoria House, Locksbrook, Bath.
- ³⁴⁷1891. Mar. †MAYNE John William, Wimbledon, Surrey.
- ¹⁵¹1889. Feb. †MAY, William H., Inspector's Office, Guildhall, E.C.
- ⁶³1888. Oct. †McDONALD, A. L., 37, George Street, Gipsy Hill, S.E.
- ⁶²⁵1892. Sept. †MEADOWS, John W., 52, Camden Street, North Shields, Northumberland.
- ⁶¹¹1892. Oct. †MEAZEY, Thomas, 1, Stanwell Road, Penarth.
- ¹⁰³1888. Dec. MERRILL, John, Albany Road, Sheffield.
- ⁵⁵⁴1892. Mar. †MIDDLETON, H., 19, Broadley Terrace, Blandford Square, W.
- ¹⁵⁴1889. Jan. †MILLARD, William David, 1, Elswick Villas, Ramsgate.
- ⁵³¹1892. June. †MILLER, Frederick William, 137, Salcott Road, Clapham Common, S. W.
- ¹¹⁷1891. Oct. †MILLER, Henry, The Wilderness, Bracondale, Norwich.

Reg. No.	Date of Election.	
452	1892. Feb.	†MILLS, Joshua George, <i>North Road, West Kirby, Chester.</i>
403	1891. Apr.	†MILLS, Walter Shephard, 38, <i>Chaplin Road, Willesden Green, N.W.</i>
323	1891. Feb.	†MILNE, George, <i>County Buildings, Elgin.</i>
132	1891. July.	†MILNER, Walter, 40, <i>Sackville Street, W.</i>
215	1890. Oct.	†MILNER, William, 18, <i>St. Paul's Road, Preston.</i>
327	1891. Apr.	†MINERS, Richard Eustace, <i>Board of Works, Poplar, E.</i>
62	1888. Oct.	†MINTY, Samuel, <i>The Triangle, Bournemouth.</i>
351	1891. Mar.	†MISSELBROOK, G. T., 1, <i>Lilley Villas, Harlands Road, Farnham, Hants.</i>
610	1892. Sept.	MITCHELL, Charles Frederick, 92, <i>Albert Street, Regent's Park, N.W., and The Polytechnic, Regent's Street, W.</i>
213	1890. Feb.	MITCHELL, Edward, 25, <i>St. Saviour's Road, Croydon.</i>
353	1891. Mar.	MITCHENER, Frederick Harry, 4, <i>Charles Street, Oxford Road, Islington.</i>
63	1888. Oct.	MOLINEUX, Walter Frank Yate, <i>Shifnal, Salop.</i>
344	1890. June.	†MOODY, Henry Fred, 26, <i>Carandish Street, Gt. Grimsby.</i>
350	1891. Feb.	†MOORE, Arthur George, <i>Superintendent of Casual Wards, Lower Road, Rotherhithe, E.C.</i>
619	1892. July.	†MORRISON, John William, <i>Town Hall, Salford, Lancaster.</i>
423	1891. Apr.	†MOSLEY, Abraham, <i>care of E. Law, County Surveyor, Northampton.</i>
450	1891. Dec.	†MOSS, Samuel, <i>Williamson Street, Tunstall.</i>
455	1892. Feb.	†MUNRO, Andrew John, <i>Churchbury House, Churchbury Lane, Enfield.</i>
506	1892. May.	NAYLER, Edward, 140, <i>Lake Road, Landport, Portsmouth.</i>
201	1889. July.	†NETTLETON, Charles William, 16, <i>Winchester Terrace, Westminster, S.W.</i>
355	1892. May.	†NEWMHAM, Frank George, 14, <i>South Norwood Hill, S.E.</i>
617	1892. July.	NEWSOME, Arthur, <i>Architect's Assistant, Middlesbrough-on-Tees, York.</i>
575	1892. May.	NEWSON, George John, 25, <i>Gertrude Street, West Brompton.</i>
354	1891. Mar.	†NICHOLAS, David, 256, <i>Essex Road, Canonbury, N.</i>
457	1892. Feb.	†NORMAN, Ernest William, 4, <i>Daves Road, Forest Gate, E.</i>
105	1888. Dec.	NORRIS, Joseph, <i>Summingdale, Surrey.</i>
257	1890. Mar.	†NORRISH, John Thomas, 9, <i>Cuthbert Road, Brighton.</i>
255	1890. May.	†NURCOMBE, Benjamin, 1, <i>Jasmine Terrace, Wurttemberg Street, Clapham.</i>
237	1890. June.	†NUTLEY, Charles Vernon, 11, <i>Dalling Road, Hammer-smith.</i>
317	1890. Oct.	†OLIVER, G., 14, <i>St. John's Road, Waterloo, Liverpool.</i>
160	1889. Mar.	†OLLETT, John Henry, <i>Sanitary Inspector, Eastbourne.</i>

Reg. No.	Date of Election.	
442	1892. Oct.	†ORCHARDSON, Robert, 2, <i>Manor Place, Ospringe, Faversham.</i>
458	1889. Nov.	ORD, James, 11, <i>Portman Street, W., (41, Upper George Street, W.).</i>
322	1892. Feb.	†ORRELL, Thomas, <i>Carr Cottage, Threlkeld, Keswick.</i>
459	1892. Sept.	†OSBORNE, Walter, 13, <i>Third Street, Bensham, Gateshead.</i>
66	1891. Nov.	†OUTRAM, Mason, 35, <i>Stafford Street, Derby.</i>
64	1888. Oct.	PALLISER, Christopher, <i>Northallerton.</i>
62	1892. July.	†PALMER, James, 35, <i>King William Street, Greenwich, Kent.</i>
61	1892. Oct.	†PANK, Richard Arnold, <i>St. Andrew's, Norwich.</i>
61	1891. June.	†PARAMOR, Robert Walter, 16, <i>Randolph Gardens, Dover.</i>
333	1890. May.	†PARHAM, John, Junr., 14, <i>Almack Road, Clapton Park, Hackney.</i>
65	1891. Dec.	PARKINSON, Herbert William, 11, <i>Gloucester Road, South Kensington.</i>
411	1889. Oct.	†PARSONS, William, <i>St. Luke's Vestry Hall, City Road, E.C.</i>
332	1890. May.	†PATTISON, William Phillip, <i>White House, Benwell, Newcastle-on-Tyne.</i>
414	1891. June.	†PEAKE, Thomas Jones, 61, <i>Wghambury Road, Willaston, Nantwich.</i>
457	1891. June.	PEARCE, Frederick James, <i>Borough Surveyor's Office, Kingston-on-Thames.</i>
62	1888. Oct.	†PEARSON, John, <i>Sanitary Inspector, Grace Hill, Folkestone.</i>
65	1888. Nov.	†PERRY, Arthur, 45, <i>Townshend Road, St. John's Wood.</i>
454	1889. June.	†PERRY, Walter Harold, 10, <i>Berkeley Avenue, Bishopston, Bristol.</i>
453	1889. Feb.	†PETTIT, George Mackness, <i>Frederick Villa, Padua Road, Penze, S.E.</i>
259	1890. May.	†PHILLIPS, Henry, 56, <i>Camden Street, Camden Hill.</i>
627	1892. Sept.	†PIDWELL, Engall Thomas, 13, <i>Kelvin Grove, Sydenham, Kent.</i>
450	1891. July.	†PILBEAM, Francis Newcastle, 28, <i>Rosaville Road, Fulham.</i>
416	1891. Oct.	†POOL, Frederick, <i>Sanitary Department, Town Hall, Manchester.</i>
233	1890. Jan.	POOLE, James, 2, <i>Trafalgar Place, Kensington.</i>
65	1888. Oct.	†POTTER, Ben, <i>Heathfield House, Broadway, Ealing.</i>
421	1889. Jan.	†POTTER, Thomas Wickford, <i>Estate Works, Thoresby Park, Ollerton, Notts.</i>
451	1889. Feb.	POWELL, David Henry William, <i>Surveyor, Pontypool.</i>
423	1889. Jan.	†PRATT, Joseph, 12, <i>Kirkdale, Sydenham.</i>
451	1889. Mar.	†PRESS, William James, <i>Rose Villa, Abingdon Street, Burnham, Somerset.</i>
615	1892. Oct.	PRINGLE, Andrew, <i>Cromwell House, Beoley Heath, Kent.</i>

Reg. No.	Date of Election.	
63	1888. Oct.	†PROGER, John L., 11, <i>Cwrtty-vie Road, Penarth, Cardiff.</i>
63	1888. Oct.	†RAINS, Joseph, <i>Kettering.</i>
517	1892. Feb.	†REAVELL, Frank Noble, <i>Maybank Road, South Woodford.</i>
70	1888. Oct.	†REAVELL, George, Jun., <i>Alnwick, Northumberland.</i>
71	1888. Oct.	†RICHARDS, Daniel, <i>Elwyn Villa, South Molton.</i>
630	1892. June.	†RICHARDS, William, 18, <i>Nunhead Grove, Peckham Rye, S.E.</i>
504	1892. Feb.	†ROBERTS, David Morris, <i>Berlin House, High Street, Portmadoc.</i>
263	1890. Apr.	†ROBERTSON, John Shirras, <i>Princes Street, Thurso.</i>
614	1892. July.	†ROBINS, H. G., 29, <i>West End Lane, London, N.W.</i>
224	1890. Jan.	†ROBINSON, John, 79, <i>Lavender Road, Clapham Junction.</i>
507	1892. Feb.	†ROBSON, Lancelot, 12, <i>Stockton Street, West Hartlepool.</i>
633	1892. Sept.	†RODWELL, Ascough, <i>Union Offices, Skipton, Yorkshire.</i>
413	1891. July.	†ROE, Edward Charles, Junr., <i>Roseauw, Maswell Park, Hounslow, Middlesex.</i>
72	1888. Oct.	†ROGERS, Richard, <i>Mac's Hilew, Carnarvon.</i>
500	1892. May.	†ROPER, Joseph Stanley, <i>Surveyor and Inspector to Rural Sanitary Authority, Greenway Court, Hollingbourne, Maidstone.</i>
422	1891. June.	†ROSSITER, Robert Herbert, 15, <i>Sloane Terrace, Sloane Street, Chelsea, S.W.</i>
614	1892. Oct.	†ROTHERA, Frederick, 71, <i>Beech Road, Sowerby Bridge, Yorkshire.</i>
620	1892. July.	†ROW, Edmund, 10, <i>Granville Road, Hoe Street, Walthamstow, Essex.</i>
410	1891. Nov.	†ROWE, Wm. Thomas Ferdinand, <i>Sanitary Engineer, 41, Old Town Street, Plymouth.</i>
163	1891. Nov.	†ROWLAND, Arthur, 5, <i>Cambridge Street, Hull.</i>
565	1892. May.	†ROYLE, Charles, 51, <i>Wormgate, Boston, Lincoln.</i>
607	1892. June.	†ROWLAND, Samuel, <i>Pontypriidd.</i>
243	1890. May.	†RUSCOE, Ernest Henry, 6, <i>Great Castle Street, Regent Street, W.</i>
225	1889. July.	†RYDER, Albert Thomas, <i>Dudley Villa, Foster Hill Road, Bedford.</i>
125	1889. Jan.	†SADLEIR, Richard J., "Woodcote," <i>Ormeley Road, Balham.</i>
73	1888. Oct.	†SALTER, Thomas, 2, <i>King's Rd., St. Leonards-on-Sea.</i>
550	1892. May.	†SANDON, Edward H., 327, <i>Harrow Road, W.</i>
203	1890. May.	†SAUNDERS, Percy, 46, <i>Jarvis Road, South Croydon.</i>
303	1890. June.	†SAVORY, Charles, 6, <i>Holford Place, W.C.</i>
357	1891. Feb.	†SCOTT, Margaret Eleanor, 133, <i>Abbey Road, South Hampstead, N.W.</i>
71	1888. Oct.	†SEDGWICK, Sydney, 10, <i>Mortimer Street, Cavendish Square, W.</i>

Reg. No.	Date of Election.	
100	1891. Nov.	†SENIOR, John Sidney, 3, <i>Queen's Road, Gosport.</i>
76	1888. Oct.	†SHADRAKE, W. A., 8, <i>Hind Street, Stainsby Road, Poplar, E.</i>
533	1892. Apr.	†SHAPLEY, William Gilbert, 37, <i>Copeland Road, Peckham.</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>
126	1889. Jan.	†SHELDON, W. E., <i>The Croft, Wantage, Berks.</i>
513	1892. Feb.	†SHILL, Albert Edmund, 30, <i>Dayton Grove, Peckham.</i>
77	1888. Oct.	†SHORE, Ambrose J., 68, <i>Adys Road, East Dulwich.</i>
172	1889. Apr.	†SHORT, James Allen, <i>Sanitary Department, Wigan.</i>
100	1891. Nov.	†SHUFFLEBOTHAM, William, <i>Roche House, Weston Street, Leek.</i>
531	1892. Apr.	†SHUTTLEWORTH, William, <i>Town Hall, Salford, Lancashire.</i>
517	1892. Mar.	†SIDDALL, Joseph, <i>Ashton-under-Lyne.</i>
173	1889. Apr.	†SIDWELL, Henry Thomas, <i>Elm Cottage, Herne Bay, Kent.</i>
624	1891. July.	†SIMMONS, Edward John, 80, <i>Paulet Rd., Camberwell.</i>
78	1888. Oct.	†SIMMONS, Nimrod, <i>Glendale, Clifton, Bristol.</i>
512	1892. Mar.	†SIMMONS, Thomas, 50, <i>Victor Road, Seven Sisters Road, N.</i>
271	1890. May.	†SIMPSON, John, 30, <i>Belmont Street, Aberdeen.</i>
221	1890. Jan.	†SIMPSON, John Thomas, 28, <i>King's Road, Peckham.</i>
527	1892. Feb.	†SIMPSON, R. D. J., <i>Knott Street, Deptford.</i>
155	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>
356	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>
502	1892. Feb.	†SMITH, George, 15, <i>St. Ann's Terrace, St. John's Wood.</i>
79	1888. Oct.	†SMITH, George Allen, <i>Vestry Hall, Hampstead.</i>
532	1892. Apr.	†SMITH, Joseph Charles, <i>Sanitary Committee, County Borough of Leeds, Yorkshire.</i>
306	1890. June.	†SMITH, Joseph Sidney, 73, <i>Elm Park, Brixton Hill, S.W.</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>
333	1890. Nov.	†SMITH, Sydney, <i>Dorset Cottage, Hastings Rd., Bechill.</i>
416	1891. June.	†SMITH, Warren B., 66, <i>College Street, Chelsea.</i>
214	1890. June.	†SMITH, W. H., 60, <i>Alma Vale Road, Clifton, Bristol.</i>
631	1892. Sept.	†SMITHIES, Arthur, <i>Albert Avenue, Starbeck, Harrogate.</i>
60	1888. Oct.	†SOPER, Henry Charles, 108, <i>Park Street, Camden Town, N.W.</i>
55	1888. Oct.	†SORTWELL, W., 14, <i>Retreat Place, Paragon Road, Hackney, E.</i>

Reg. No.	Date of Election.	
1888. Oct.		SOUTHPORT, The Mayor and Corporation of.
1892. Sept.		†SPEIGHT, Harry, <i>Kirkhamgate, Wakefield, York.</i>
1891. Feb.		†SPENCER, Julius, 6, <i>Lord Street, Keighley.</i>
1892. June.		†SPINK, Joseph, <i>Dale House, Formby, Liverpool.</i>
1888. Oct.		†STANLEY, A. W., <i>Newington, Hull.</i>
1892. Apr.		†STANLEY, Walter, 29, <i>Somerville Terrace, Sheffield, Yorkshire.</i>
1892. Feb.		†STANNARD, Harry William, <i>Market Place, Rugby.</i>
1892. Mar.		†STANSFIELD, Alfred, 2, <i>Tokenhouse Buildings, E.C.</i>
1888. Oct.		†STEERS, George, 21, <i>Brereton Road, Bedford.</i>
1888. Oct.		†STEVENSON, John, <i>Surveyor's Office, East Molesey, Surrey.</i>
1892. May.		†STEWART, James, 28, <i>Crozier Street, Westminster Bridge Road, S.E.</i>
1892. Oct.		†STEWART, Robert Tomlinson, <i>Thorpe-le-Soken, Essex.</i>
1891. Feb.		†STOLLERY, William, <i>Dust Depot, Culvert Road, Butterscot.</i>
1892. Feb.		†STREATHER, William Turner, 4, <i>Lismore Road, Gospel Oak, N.W.</i>
1889. Apr.		†STRUTT, Thomas Frederick, 5, <i>Taristock Street, Covent Garden, W.C.</i>
1892. Nov.		†SURTEES, Richard Thos., 29, <i>Old Gate Street, Morpeth, Northumberland.</i>
1892. Jan.		†SUTCLIFFE, Alfred, <i>Thornton, Bradford.</i>
1890. Feb.		†SUTHERLAND, Walter, 8, <i>Fochas Street, Liverpool.</i>
1890. Nov.		†SUTTLE, Alfred, <i>Manor Square, Olney.</i>
1891. Dec.		†SWITZER, Sidney A., 9, <i>Derby Street, Gray's Inn Road, W.C.</i>
1890. Nov.		†SYDENHAM, Sydney, 37, <i>Broad Street, Bath.</i>
1889. Jan.		†TAIT, James, <i>Roslyn Place, Dean Street, Kilmarnock.</i>
1889. Jan.		†TATE, William, 29, <i>Kenilworth Road, Kilburn.</i>
1891. June.		†TAYLOR, Albert, <i>Vestry Hall, Mount Street, W.</i>
1892. Nov.		†TAYLOR, Harry James, <i>County Local Surveyor, Sturminster Newton, Dorset.</i>
1891. Nov.		†TAYLOR, Harry William, <i>Town Surveyor's Office, Newmarket.</i>
1890. Nov.		†TAYLOR, Henry Thomas, 10, <i>Higham Street, Everton, Liverpool.</i>
1889. Jan.		†TAYLOR, James, 17, <i>Oxford Street, Hereford.</i>
1890. May.		†TAYLOR, James, 10, <i>Mount Pleasant, Waterloo, Liverpool.</i>
1889. Jan.		†TEMPLE, William Herbert, <i>Scarborough.</i>
1892. Mar.		†THATCHER, Albert George Hendy, <i>Hampton Court Palace, W.</i>
1890. May.		†THOMAS, George, 356, <i>Iverdale Road, Nunhead, S.E., and City of London Electric Lighting and Engineering Office, Portland House, Basinghall Street, E.C.</i>
1888. Oct.		†THOMAS, Thomas, 4, <i>Chandos Road, Redlands, Bristol.</i>

Reg. No.	Date of Election.	
1891. Feb.		†THOMAS, Thomas F., 32, <i>West Square, St. George's Road, Lambeth.</i>
1888. Oct.		†THOMAS, W. K., 42, 43 & 44, <i>Triangle, Clifton, Bristol.</i>
1890. Oct.		†THOMPSON, Bernard H., <i>Royal Engineers' Office, Windsor.</i>
1891. July.		†THOMPSON, Ralph, 29, <i>Hall Hill Bank, Hexham.</i>
1889. Feb.		†THORPE, James, 19, <i>King Edward Street, Macclesfield.</i>
1892. Apr.		†TINDELL, Robert L., 47, <i>Burley Lodge Terrace, Leeds.</i>
1892. Mar.		†TITMUS, Joseph E., 59, <i>Commerce Road, Wood Green, N.</i>
1890. June.		†TOMKINS, Alfred, 62, <i>Church Street, Camberwell.</i>
1891. Nov.		†TOMKYS, F. L., <i>Torvil, Somerset.</i>
1892. Mar.		†TOMLINSON, Frank, 59, <i>Sheriff Street, Rochdale.</i>
1892. Apr.		†TOMS, William Charles, 14, <i>Erandale Road, Brixton.</i>
1892. Mar.		†TRAVIS, David, <i>Chief Sanitary Inspector, Halifax.</i>
1892. Mar.		†TREVESA, George, <i>Oulton, Marlborough.</i>
1890. Nov.		†TRIGG, Henry John, <i>Martock, Somerset.</i>
1891. July.		†TROWSDALE, Tom James, 12, <i>Leybourne Terrace, Stockton-on-Tees.</i>
1888. Oct.		†TUCKEY, George F., 47, <i>Milk Street, Bristol.</i>
1890. June.		†TURNER, Alfred, 49, <i>Ellora Road, Streatham, S.E.</i>
1891. Mar.		†TWAITS, James, 21, <i>Latham Street, Poplar, E.</i>
1890. Dec.		†VEASEY, Thomas Frederick, <i>ASSOC.M.INST.C.E., care of O. H. Veasey, Bridge House, Huntingdon.</i>
1891. June.		†VINCENT, George Edwards Bussell, 55, <i>Mayfield Road, Dalston.</i>
1891. Mar.		†WADDINGTON, Thos. W., 8, <i>Albert Street, Padiham.</i>
1890. June.		†WALKER, Francis, 23, <i>Woodstock Road, Shepherd's Bush, W.</i>
1892. Sept.		†WALL, Samuel Edward, <i>A.R.I.B.A., 26, Mount View Road, Stroud Green, London.</i>
1888. Oct.		†WALLACE, Miss J., 6, <i>Hyde Park Gardens.</i>
1889. Nov.		†WALLAS, Irwin Clarke, 41, <i>Cavendish Road, Clapham Common, S.W.</i>
1890. Nov.		†WALLIS, Thomas Wilkinson, <i>Surveyor, Louth, Lincoln.</i>
1890. May.		†WANSBROUGH, Cecil Shartman, <i>Arlington Villa, Barrow-in-Furness.</i>
1892. May.		†WARRAN, William Ernest, 5, <i>Broad Park Villas, Whitechurch Road, Tavistock.</i>
1892. Jan.		†WATSON, Harry John James, 5, <i>Upper John Street, W.</i>
1892. Mar.		†WATSON, Thomas, <i>Kirkoswald, Cumberland.</i>
1892. Jan.		†WATSON, William Hill, <i>Vestry Hall, Piccadilly.</i>
1888. Nov.		†WATTS, George Nelson, 147, <i>High Street, Notting Hill, W.</i>
1890. Jan.		†WATTS, Gerald, <i>Local Board of Health, St. George's, Bristol.</i>
1890. Feb.		†WATTS, William Frederick, <i>Bitterne, Southampton.</i>
1892. May.		†WEATHERITT, James, <i>Town Hall, Newcastle-upon-Tyne.</i>

Reg. No.	Date of Election.	
82	1888. Oct.	†WEBB, James A., <i>Town Hall, Fulham.</i>
312	1890. Nov.	†WEEKS, Alfred James, <i>Toularabia Road, Clapham Common, S.W.</i>
50	1888. Oct.	†WELLS, G. F., 37, <i>Prospect Street, Hull.</i>
576	1892. May.	†WELLS, William James, <i>Lower Kingswood, Reigate.</i>
533	1892. June.	†WHITE, William, 27, <i>Harvey Street, Folkestone.</i>
371	1891. Feb.	†WHITE, William Owen, 8, <i>Albert Street, Banbury.</i>
531	1892. Apr.	†WHITEHEAD, James, 38, <i>Raumarsh Hill, Park Gate, Rotherham.</i>
52	1892. Feb.	†WHITHAM, Joseph, <i>Shelf, Halifax.</i>
413	1891. June.	†WHITTOME, Philip Alfred, <i>The Chestnuts, Rothcay Road, Bedford.</i>
541	1892. Mar.	†WILKINSON, George H., 83, <i>Townsend Lane, Anfield, Liverpool.</i>
91	1888. Oct.	†WILKINSON, W., <i>Ford Street, Derby.</i>
571	1892. May.	†WILKINSON, William, <i>Sanitary Inspector, Altofts.</i>
320	1890. Nov.	†WILLBOND, George Baines, <i>Guildhall, Nottingham.</i>
612	1892. Oct.	†WILLIAMS, George, 6, <i>Priory Road, Everton, Liverpool.</i>
424	1892. Feb.	†WILLIAMS, Joseph, 30, <i>Goldhurst Terrace, Finchley Road, N.W.</i>
357	1891. Mar.	†WILLIAMS, Llewellyn A., 80, <i>Easton Street, High Wycombe.</i>
545	1892. Mar.	†WILLIAMS, Richard Jun., 14, <i>Lucerne Street, Lark Lane, Sefton Park, Liverpool.</i>
162	1889. Mar.	†WILSON, Charles Turle, 37, <i>Burney Street, Greenwich, S.E.</i>
124	1889. June.	†WILSON, John, <i>Town Hall, Kensington.</i>
204	1889. July.	†WILSON, William, <i>Grasington Terrace, South Shields.</i>
372	1891. Feb.	†WINDLE, Thomas, 8, <i>Tennis Street, Burnley.</i>
611	1892. Oct.	†WINDSOR, William, 13, <i>Sutcliffe Street, Liverpool, E.</i>
52	1888. Oct.	†WINSER, F. Sawyer, 52, <i>Buckingham Palace Road, S.W.</i>
602	1892. June.	†WINSBORROW, Edwin James, <i>Town Hall, Westminster.</i>
173	1889. Apr.	†WINTER, Edward, 19, <i>King's Gardens, W. Brighton.</i>
637	1892. Nov.	†WOOD, Alfred, <i>Bury, Lancashire.</i>
411	1891. July.	†WOOD, Charles Bruce, 37, <i>Irene Road, Parsons Green, S.W.</i>
600	1892. June.	†WOOD, Charles Fred, 1, <i>Cedar Villas, W. Hampstead.</i>
131	1889. Jan.	†WOOD, Peter, 177, <i>Ashmore Road, Paddington.</i>
203	1889. July.	†WOODCOCK, Henry, 16, <i>Steelhouse Lane, Birmingham.</i>
451	1891. Nov.	†WOODSON, William, 1A, <i>Charles Street, Pendleton, Manchester.</i>
379	1891. Mar.	†WOODHOUSE, Tom, 25, <i>Worsley Road, Leytonstone, E.</i>
514	1892. Feb.	†WOODMAN, Henry Frederick, 18, <i>Burlington Road Westbourne Park.</i>
163	1889. Mar.	†WOONTON, James, 64, <i>Anthony Street, E.</i>

Reg. No.	Date of Election.	
431	1891. July.	†WORRALL, Ernest, 5, <i>Beaconsfield Terrace, Scacombe, Liverpool.</i>
423	1891. Nov.	†WORRALL, William Henry, 208, <i>High Street, Harborne.</i>
276	1890. May.	†WRACK, Thomas Philip, 15, <i>Great Alie Street, Whitechapel.</i>
132	1889. Jan.	†WRIGHT, John, Junr., 3, <i>Surbiton Park Terrace, Kingston-on-Thames.</i>
531	1892. Feb.	†YATES, Robert, 42, <i>Lopus Street, St. George's Sq., S.W.</i>
61	1892. Jan.	†YOUNG, Frank Russell, 60, <i>Elmsdale Road, Walthamstow, Essex.</i>
352	1892. Mar.	†YOUNG, Isaac, 39, <i>Dorothy Road, Lavender Hill.</i>

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SOC., F.G.S., F.S.S.
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LEAF, W., LITT. DOC.
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LONGSTAFF, G. B., M.D., M.A., D.P.H.
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F.R.S.
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 SMITH, Urban Armstrong, ASSOC.M.INST.

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 SWINBURNE, C. A.
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 THOMPSON, Geo. Wm., ASSOC.M.INST.C.E.
 THOMPSON, Thos. Wm., L.R.C.P., M.R.C.S.,
 D.P.H., M.O.H.
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 TITMAS, William.
 TRAVERS, William, M.D., F.R.C.S.
 TYNDALE, Walter Clifford, ASSOC.M.INST.
 [C.E.]
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 WALLIS, H. Sowerby, F.R.MET.SOC.
 WALLIS, Isabel White.
 WALTON, Rienzi G., M.INST.C.E.
 WELLS, Sir T. Spencer, BART., M.D.,
 F.R.C.S.
 WHEELER, Charles.
 WHITAKER, William, B.A., F.R.S., F.G.S.
 WHITCOMBE, Arthur.
 WHITE, William, F.S.A., F.R.I.B.A.
 WIGHTWICK, Fallon Percy, M.B., M.R.C.S.,
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 WILLIAMS, C. Theodore, M.A., M.D.,
 F.R.C.P., F.R.MET.SOC.
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 L.R.C.P., M.O.H.
 WOOD, Jacob.
 WOOD, William, M.D.
 WORTH, John Edward, ASSOC.M.INST.C.E.,
 F.R.MET.SOC.
 WYNDHAM, Rev. Francis M., M.A.OXON.
 YULL, W., ASSOC.M.INST.C.E.

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ADAMS, Albert E.
 ADAMS, H. J.
 ADAMS, Miss Rose.
 ANDERSON, Tom.
 ANDREWS, Daniel James.
 ANNETT, William Fenn.
 ANTHONY, Frederick Joseph.
 ASHDOWN, Thomas.
 ATHEY, Frederick.
 ATKINS, Robert William.
 BARFOOT, James.
 BARTLETT, William John.
 BARRON, John.
 BASSETT, William Joshua.
 BAXTER, Frank E.

BAXTER, John.
 BIRCH, John Ernest William.
 BLAKE, E. T., M.D.
 BLAKE, H. K.
 BOND, William Henry.
 BOVEY, William T.
 BOYCE, W.
 BOYD, Richard Wade.
 BROAD, Clement B.
 BROWN, Robert, Jun.
 BROWN, Robert Frederick.
 BRYAN, George John.
 BUCKERIDGE, Walter.
 BUGLER, W. J.
 BURN, Robert G. N.
 BURROUGHS, S. M.
 BURTON, W. H.
 BUTCHER, Charles Ernest.
 BUTLAND, R. J.
 CARTER, Alfred.
 CARY, Aquilla S.
 CATTEN, Joseph H.
 CAVE, James.
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 CHAPPELL, William.
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 CLIFTON, Henry Charles.
 COCKBURN, Henry Maco.
 COLLINS, Henry Beale.
 COOK, Alfred.
 COOK, William George.
 COOK, William Gough.
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 CORP, James.
 COURT, Thomas Henry.
 COWPER, Joseph.
 COXILL, George E.
 CRABBE, W. G.
 CROCKER, Thomas William.
 CROOK, William Robert.
 CROSSE, Hammond William.
 DALE, Duncan.
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 DEE, Thomas George.
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 DOCKING, Frederick Reynolds.
 DOVER, John Henry.
 DUCK, Albert George.
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 EVANS, John Evan.
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 FISHER, Robert.
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 FORDHAM, William Francis.
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 HALL, George Berringer, F.G.S.
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 HALLON, Charles.
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 HEARN, Walter.
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 HENLEY, Amos S.
 HIGH, George Frederick.
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 HOOPER, William.
 HORNCASTLE, Henry.
 HORTON, Richard.
 HORTON, William.
 HOUGHTON, Robert Alfred.
 ILES, Alfred Robert.
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 JOHNSON, John William.
 JONES, Charles Bristow.
 JONES, John.
 JONES, Julius Morris Wilson.
 JURY, H. A.
 KELF, Charles Harvey.
 KEMSLEY, Jesse.
 KENNEDY, Daniel.
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 MARTIN, Alexander William.
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 MILLS, Walter Shephard.
 MILNER, Walter.
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 MITCHELL, Edward.

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 WOOD, Charles Bruce.
 WOOD, Charles Fred.
 WOOD, Peter.
 WOODHOUSE, Tom.
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 YATES, Robert.
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DUTHIE, Alexander.
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GILLIES, Neill.
GUNN, Alexander.
HAY, Alexander.
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MORRIS, G. John.
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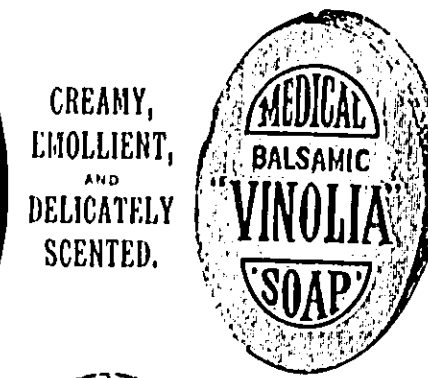
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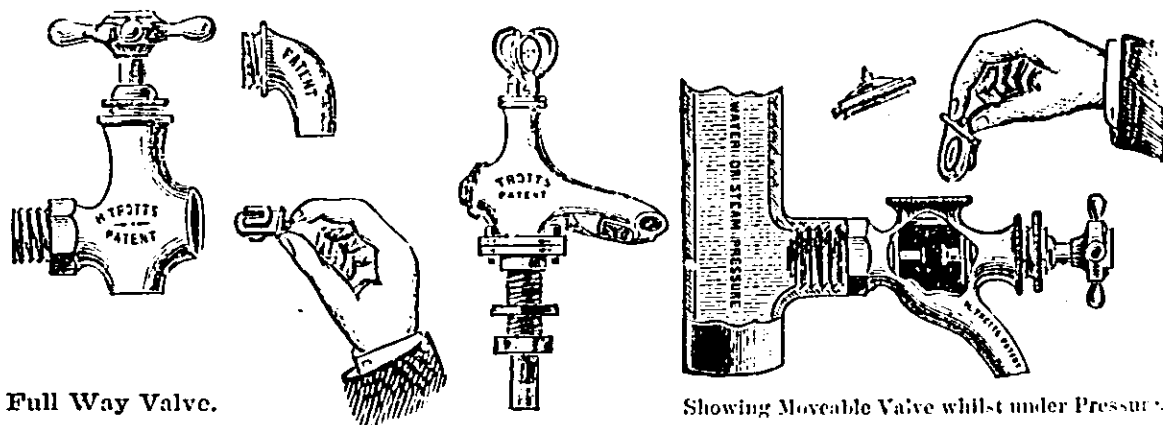
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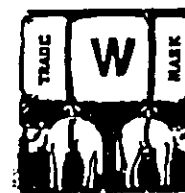
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STANDARD DISINFECTANTS.

After comparative bacteriological tests of numerous Disinfectants, on behalf of the Board of Trade, at the Laboratory of the Commissioners of Her Majesty's Inland Revenue, "Liquid Carbolic Acid" and "Carbolic 20 % Powder" have been adopted as the Standard Disinfectants to be used on Passenger and Emigrant Ships.

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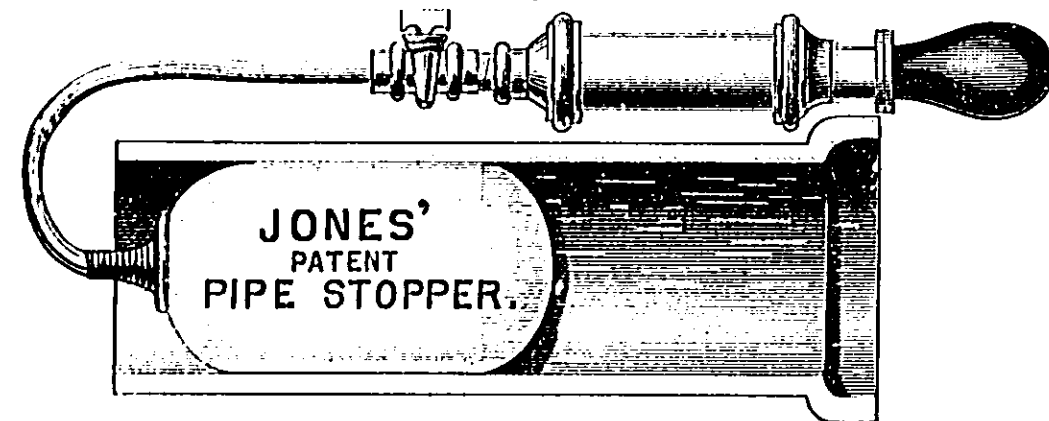
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Certificate of Merit, 1890, and further Certificate of Merit for Improvements, 1892, from the Sanitary Institute.



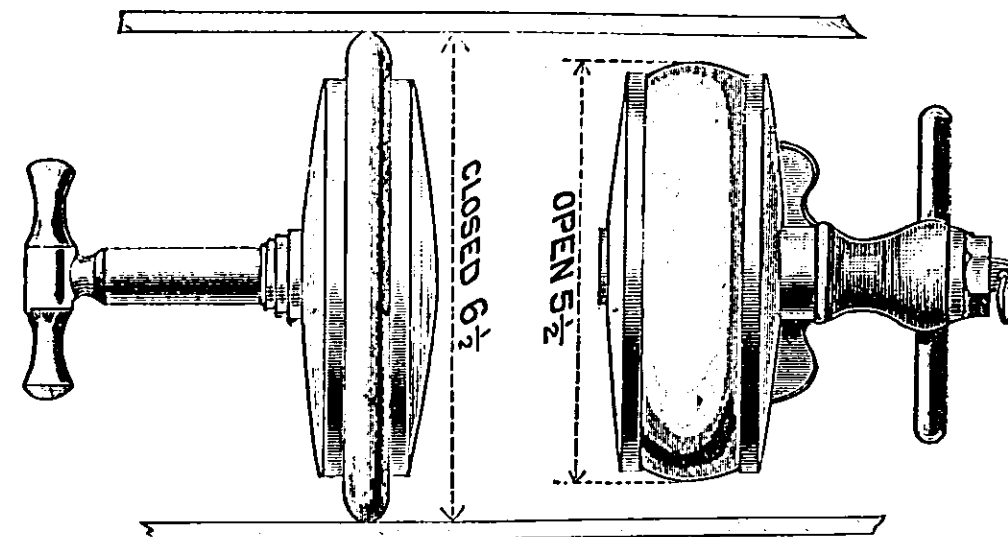
Gold Medals, 1890 & 1891, Award of Merit, British Medical Association, 1892.

This invention consists of a cylindrical shaped bag for stopping pipes for the purpose of testing, &c., with water the soundness of drains, which is acknowledged to be the only reliable method. To the bag is attached a small flexible tube, with a tap at the end, connected to a strong hand pump. The bag is placed in the drain before inflation, and by working the pump it is quickly filled with air, under sufficient pressure, to dam the drain, and prevent any escape of water. By turning the tap the inflated bag remains in that state as long as required, and, when done with, a half turn of the tap again releases the air, and the bag is withdrawn. Amongst its advantages may be named its lightness and flexibility, enabling it to be folded and carried in a small compass; it can be placed in syphons and other traps, where all other stoppers fail.

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This Stopper consists of two plates or discs of Galvanized Iron, between which a special hollow rubber ring is fixed by means of grooves in the plates. It is screwed up by a key which causes the rubber to expand outward to the extent of *One Inch*. This will be found sufficient to plug any pipe according to size of stopper used.

PRICES, each—4-in., 8/-; 5-in., 10/-; 6-in., 12/-; 9-in., 18/-; 12-in., 28/-

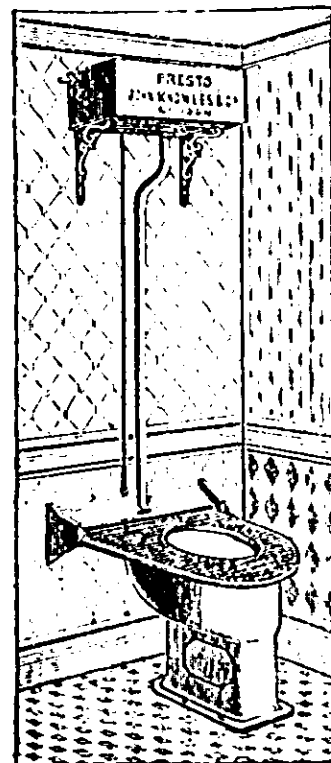
These Stoppers are made with and without centre outlets. In ordering state which required. Indicators for attaching to the stoppers with centre outlets, shewing the fall of drain, and at the same time registering any leakage, can be had. Price 12/-

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Ordinary use.



Closet Flushed on rising from seat.

ADAPTED TO ANY FORM
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(PATENT.)

It is the first and only DOUBLE-ACTION Closet Seat.

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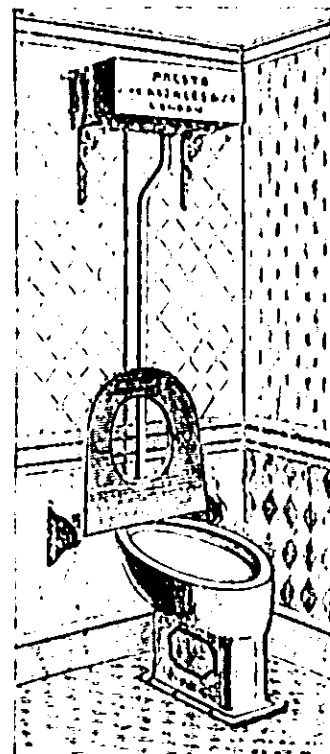
Absolute cleanliness is ensured without attention.

For Press Notices, see *The Builder*, May 28th, 1892, and *The Building News*, June 3rd, 1892.

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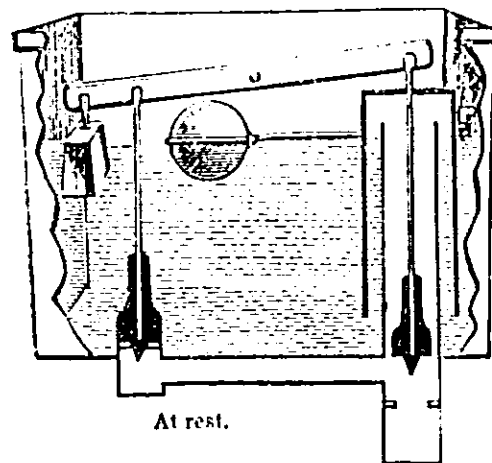
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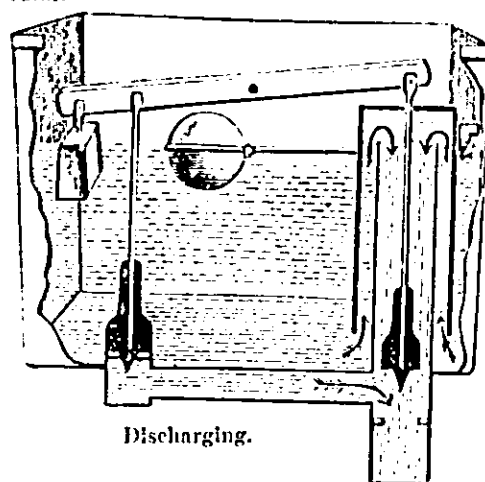


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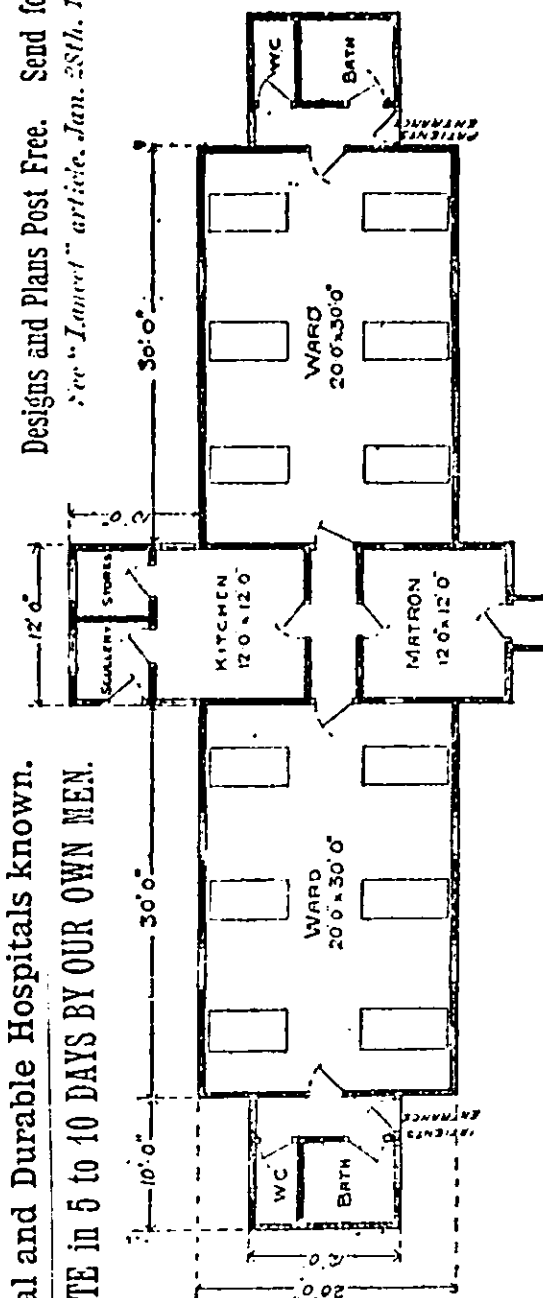
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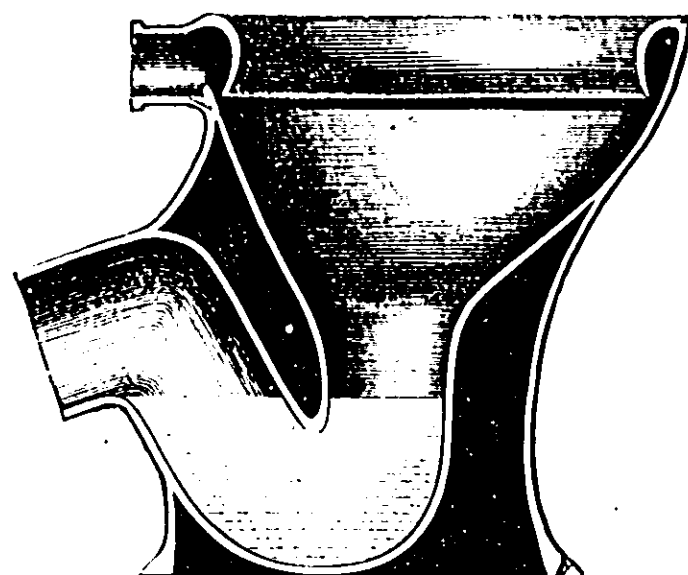
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CAN BE HAD WITH EITHER LEAD OR EARTHENWARE TRAP.

SEVERAL THOUSANDS OF THESE CLOSETS ARE NOW IN USE.

Our SYPHON CISTERN is specially suitable for this Closet, as it has a full 1½ in. water way in every part, and may be used with either 1½ in. or 1¼ in. pipe, and has no valves to get out of order.

BASINS AND TRAPS ONLY.

						£	s.	d.
No. 1.	Cane and White	..	..	..	..	1	7	0
No. 2.	All White	..	..	..	..	1	16	0
No. 3.	Blue Printed	..	..	..	..	2	4	0

If with raised ornamentation add 2s.

SYPHON CISTERNS ONLY.

2	Gall.	Cast-iron painted Cistern	1	0	0
3	"	"	1	5	0
2	"	Galvanized Cast-Iron Cistern and Copper Cylinder	1	10	0
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MEDAL SANITARY INSTITUTE, 1892.

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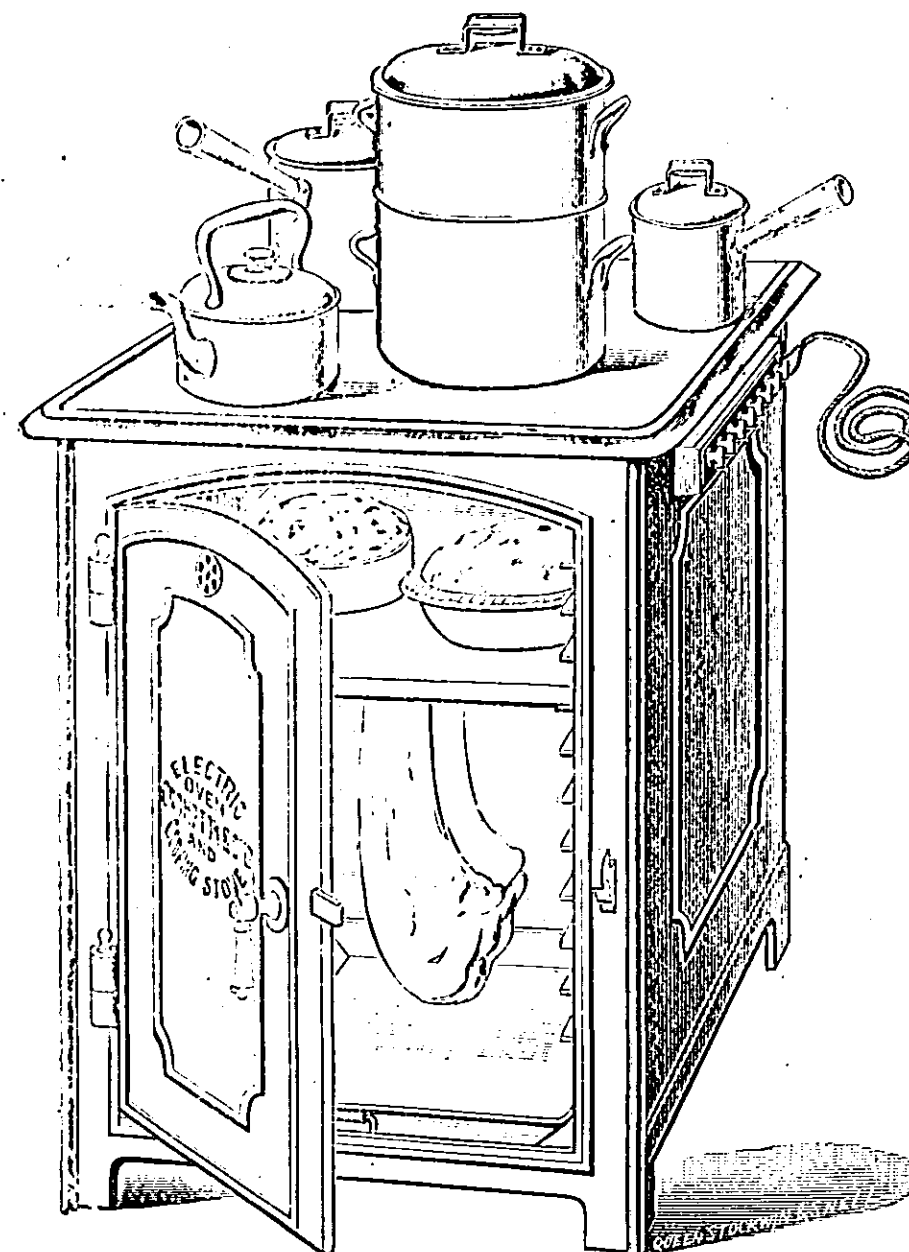
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THE
"St. Bede Disinfectant."

(PATENTED. REGISTERED.)

A REAL DISINFECTANT!

Used by Medical Officers of Health.

TESTIMONIALS.

REPORT BY DR. EDWARD SEATON ON THE "ST. BEDE DISINFECTANT."

31st July, 1889.

Since it became established that the Per-Chloride of Mercury in the presence of a free acid, or its equivalent, was by far the most efficacious disinfectant, medical practitioners generally, and especially those who have to do with the prevention of fevers, have felt the great want of a convenient preparation which would contain the Per-Chloride of Mercury in the necessary strength together with a free acid, or its equivalent; and which would at the same time be in such a form as could be safely entrusted to Fever Nurses, Sanitary Inspectors and others by whom the processes of disinfection are usually carried out.

Such an article has now been prepared by the St. Bede Chemical Company. It is in the form of blocks, each weighing an ounce, and each containing 17.5 grains, or 4 per cent. of Per-Chloride of Mercury. The block is composed mainly of anhydrous sodium sulphate (332.1 grains), with which is combined 24.5 grains of sulphuric acid; the acid sulphate thus formed appearing to act like a free acid, and to give to the Per-Chloride of Mercury its full disinfecting or germ-destroying power. The block contains also 2.2 grains of eucalyptus and thymol and .9 grains of indigo, so that when dissolved it has a strong, but pleasant, smell and a bright blue colour. I have had several of these blocks submitted to me for analysis, experiment, and report. I find the proportion of the Per-Chloride of Mercury in each to be as stated, viz., 4 per cent., or 17 grains in the ounce block. The block is rather slowly soluble in a quart of water. The resulting blue solution is described as a very strong disinfectant. In order to test this I have made experiments in conjunction with Dr. Klein, to ascertain the effect of the solution on certain well known organisms which have been proved to be pathogenic or constantly present in zymotic diseases. The tests were made with the bacilli and spores of anthrax, also with the organisms present in cases of cholera and enteric fever. On adding three drops of the culture fluids of these organisms to three cubic centimetres of the blue solution, consisting of one block dissolved in a quart of water, the organisms were destroyed after only five minutes' exposure. This is a very severe test and shows that the blue solution is a very strong disinfectant for infected linen, blankets, &c. We further tested its power of disinfecting the evacuations of enteric fever and cholera. Sterilised faecal matter in a fluid condition was inoculated with as much as one-seventh part of the culture fluid of the organisms present in enteric fever. To this was added an equal quantity of the blue solution, and five minutes was found to be sufficient to destroy the organisms. I have also tested its antiseptic powers by dissolving a block in putrescible fluids, and I found that one block dissolved in twenty-five quarts of a putrescible fluid, retarded decomposition five days; and that when dissolved in twelve and a half quarts, there was no sign of decomposition in the putrescible fluid after eight days. I further tested its power as a deodorant by noticing its effect upon heaps of fish refuse mixed with other decomposing animal and vegetable matters, and I found the solution was an excellent deodorant.

The preparation called the "St. Bede Disinfectant" has most powerful disinfecting and antiseptic properties, and is also a valuable deodorant. At the same time its colour and smell are quite sufficient safeguards against the possibility of its mistaken use. I have therefore no hesitation in strongly recommending it on public grounds.

(Signed) EDWARD SEATON, M.D., F.R.C.P.,

Fellow of the Institute of Chemistry,

Medical Officer of Health for Chelsea,

Lecturer on Sanitary Science and Public Health, St. Thomas' Hospital, London

THE DETAILS OF THE EXPERIMENTS REFERRED TO IN DR. SEATON'S REPORT ARE AS FOLLOWS:—

The "St. Bede Disinfectant" was now in solution, one block being dissolved in one quart of water.

1.—The "killing power," i.e., the power to kill microbes, was tested on the following microbes: (a) bacillus anthracis without spores, (b) spores of bacillus anthracis, (c) the comma-bacillus found in Asiatic cholera, (d) the bacillus found in human typhoid fever.

Of normal cultivations in broth of these several microbes, about three drops were added to about three cubic centimetres of the disinfectant solution, well mixed, and after the lapse of five minutes, one to two drops of the mixture were added to tubes containing about 10 c.c. normal sterile beef broth; for control similar normal sterile beef broth was inoculated with a mere trace of the same culture fluids used for the above experiments. All broth tubes were placed in the incubator at 37° C., while all the control tubes showed already after twenty-four hours' copious typical growth of the several microbes, the others were perfectly clear and remained so afterwards. It follows from these experiments that five minutes' exposure of bacillus anthracis, of spores of bacillus anthracis, of the choleraic bacilli, and of the typhoid fever bacilli to the "St. Bede Disinfectant" solution is sufficient to kill these microbes.

2.—An important and extremely severe test of the killing power of the "St. Bede Disinfectant" solution was made in the following experiments:—

To normal human faecal matter in thick solution, previously sterilised and contained in test tubes, was added a certain quantity of normal culture fluid of the choleraic bacilli and of the typhoid fever bacilli respectively, about one-seventh of the culture fluid being added to six-sevenths of the faecal solution. After mixing well the disinfectant was added to each of the faecal mixtures in equal proportions, so that each of the test tubes contained $\frac{1}{2}$ of the faecal matter plus culture fluid, and $\frac{1}{2}$ of the disinfectant. After five minutes a number of test tubes containing sterile beef broth, as in the former series, were inoculated with a drop or two from these faecal mixture tubes, then placed in the incubator and kept at 37° C., but no growth appeared in them and the fluids remained sterile. At the same time that the above experiments were made, control broth tubes were inoculated with a trace of the faecal solution after the addition to them of the culture fluids, but before the addition of the disinfectant, these control tubes were also placed in the incubator and kept at 37° C., they all showed abundant normal growth after twenty-four hours of the choleraic bacilli and of the typhoid bacilli respectively.

(Signed) E. KLEIN, M.D., F.R.S.,

Professor of Bacteriology at the College of State Medicine, London.

LABORATORY AND ASSAY OFFICE,

75, THE SIDE, NEWCASTLE-UPON-TYNE,

July 6th, 1889.

I hereby certify that I have analysed a sample of the "St. Bede Disinfectant," manufactured by Messrs. The St. Bede Chemical Company (Limited), Newcastle-upon-Tyne, and that I find it contains as follows:—

Per-Chloride of Mercury	..	..	..	..	4.01 per cent.
Free Sulphuric Acid	..	..	..	..	4.10 "
Sulphate of Soda	..	..	..	..	87.25 "
Sulphate of Lime	..	..	..	..	1.30 "
Oxide of Iron, &c.	..	..	..	..	0.27 "
Chloride of Sodium	..	..	..	..	0.21 "
Insoluble Siliceous Matter	..	..	..	..	0.24 "
Thymol, Eucalyptus, Indigo, and Water	..	..	..	..	2.62 "

100.00

The principal active ingredient of this disinfectant is Per-Chloride of Mercury (corrosive sublimate) which is known to be the most certain and powerful destroyer of disease germs. When the "St. Bede Disinfectant" is dissolved according to the instructions given it forms a solution of the strength and character recommended by Dr. Buchanan, the Medical Officer of the Local Government Board, as being effective as a disinfectant. It is prepared and packed in a form which makes it convenient and easy to be used.

(Signed) JOHN PATTINSON, F.I.C., F.C.S.,

Public Analyst for Newcastle-upon-Tyne.

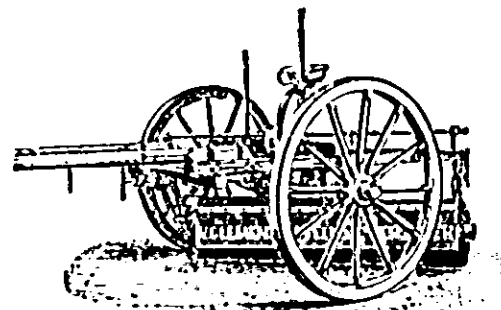
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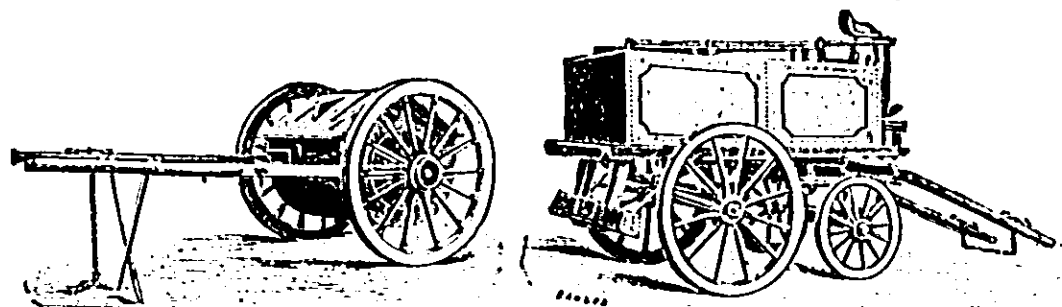
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Medal of The Sanitary Institute, 1889, and Three Certificates of Merit.
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 Wrought Iron Wheels with Cast Hubs and Loose Boxes, Easily Exchanged.
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