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JANUARY.

1	Th.	
2	F.	
3	S.	
4	S.	Second Sunday after Christmas Sir Isaac Newton [born, 1642]
5	M.	
6	T.	Epiphany
7	W.	
8	Th.	
9	F.	
10	S.	
11	S.	First Sunday after Epiphany
12	M.	Hilary Law Term begins
13	T.	Cambridge Lent Term begins
14	W.	Oxford Lent Term begins
15	Th.	
16	F.	
17	S.	
18	S.	Second Sunday after Epiphany
19	M.	
20	T.	
21	W.	
22	Th.	Last day for giving Notice of Examination
23	F.	Council Meeting, Sanitary Institute
24	S.	
25	S.	Septuagesima Sunday
26	M.	
27	T.	
28	W.	
29	Th.	Last day to pay fee for Examination
30	F.	
31	S.	Hilary Law Term ends

FEBRUARY.

1	S.	Sexagesima Sunday
2	M.	
3	T.	
4	W.	Exam. Surveyors and Inspectors of Nuisances
5	Th.	
6	F.	
7	S.	
8	S.	Quinquagesima Sunday
9	M.	
10	T.	Shrove Tuesday. Queen Victoria married, 1840
11	W.	Ash Wednesday
12	Th.	
13	F.	
14	S.	
15	S.	First Sunday in Lent
16	M.	
17	T.	
18	W.	
19	Th.	
20	F.	
21	S.	
22	S.	Second Sunday in Lent
23	M.	
24	T.	
25	W.	
26	Th.	Council Meeting Sanitary Institute
27	F.	Thames Angling ends
28	S.	
29	S.	Third Sunday in Lent

MARCH.

1	M.	
2	T.	
3	W.	
4	Th.	
5	F.	
6	S.	
7	S.	Fourth Sunday in Lent
8	M.	
9	T.	
10	W.	Sir William Fergusson died, 1877
11	Th.	
12	F.	
13	S.	
14	S.	Fifth Sunday in Lent
15	M.	Dr. Parkes died, 1876
16	T.	
17	W.	
18	Th.	Princess Louise born, 1848
19	F.	Cambridge Lent Term ends
20	S.	Oxford Lent Term ends Sir Isaac Newton
21	S.	Palm Sunday [died, 1726]
22	M.	
23	T.	
24	W.	Hilary Law Sittings end
25	Th.	Council Meeting, Sanitary Institute. Lady Day
26	F.	Good Friday
27	S.	
28	S.	Easter Sunday
29	M.	Bank Holiday.
30	T.	
31	W.	

APRIL.

1	Th.	
2	F.	Census of United Kingdom taken, 1871
3	S.	
4	S.	Low Sunday
5	M.	
6	T.	Easter Law Sittings begin
7	W.	Prince Leopold born, 1853
8	Th.	
9	F.	
10	S.	
11	S.	Second Sunday after Easter
12	M.	
13	T.	
14	W.	Princess Beatrice born, 1857
15	Th.	
16	F.	
17	S.	
18	S.	Third Sunday after Easter. Abernethy died, 1831
19	M.	
20	T.	
21	W.	
22	Th.	Council Meeting, Sanitary Institute
23	F.	
24	S.	
25	S.	Fourth Sunday after Easter Princess Alice [born, 1843]
26	M.	
27	T.	
28	W.	
29	Th.	
30	F.	London University founded, 1827

MAY.

1	S.	Duke of Connaught born, 1850
2	S.	Fifth Sunday after Easter
3	M.	
4	T.	
5	W.	
6	Th.	Ascension Day
7	F.	
8	S.	
9	S.	Sunday after Ascension Day
10	M.	Half-Quarter Day
11	T.	
12	W.	
13	Th.	Vaccination introduced, 1796
14	F.	Oxford Term ends. Easter Law Term ends
15	S.	Oxford Trinity Term begins
16	S.	Whit-Sunday
17	M.	Bank Holiday. Last day for giving Notice of [Examination]
18	T.	
19	W.	
20	Th.	Council Meeting, Sanitary Institute
21	F.	
22	S.	
23	S.	Trinity Sunday
24	M.	Queen Victoria born, 1819
25	T.	Trinity Law Term begins. Princess Helena [b. 1846]
26	W.	Last day to pay fee for Examination
27	Th.	
28	F.	
29	S.	
30	S.	First Sunday after Trinity
31	M.	

JUNE.

1	T.	Examination Surveyors and Inspectors of [Nuisances]
2	W.	
3	Th.	
4	F.	
5	S.	
6	S.	Second Sunday after Trinity
7	M.	
8	T.	
9	W.	
10	Th.	
11	F.	
12	S.	
13	S.	Third Sunday after Trinity
14	M.	
15	T.	
16	W.	
17	Th.	
18	F.	
19	S.	
20	S.	Fourth Sunday after Trinity. Queen's Accession, [1837]
21	M.	Longest Day
22	T.	
23	W.	
24	Th.	Midsummer Day. Council Meeting, Sanitary [Institute]
25	F.	Cambridge Term ends
26	S.	
27	S.	Fifth Sunday after Trinity
28	M.	Coronation of Queen Victoria, 1838
29	T.	
30	W.	

JULY.

1	Th.	
2	F.	
3	S.	
4	S.	Sixth Sunday after Trinity
5	M.	
6	T.	
7	W.	
8	Th.	
9	F.	
10	S.	Oxford Trinity Term ends
11	S.	Seventh Sunday after Trinity
12	M.	Meeting to form Sanitary Institute, 1876
13	T.	
14	W.	
15	Th.	
16	F.	
17	S.	
18	S.	Eighth Sunday after Trinity
19	M.	
20	T.	
21	W.	
22	Th.	Council Meeting, Sanitary Institute
23	F.	
24	S.	
25	S.	Ninth Sunday after Trinity
26	M.	
27	T.	
28	W.	
29	Th.	
30	F.	
31	S.	

AUGUST.

1	S.	Tenth Sunday after Trinity. Congrès d'Hyg. [opened at Paris, 1878]
2	M.	Bank Holiday
3	T.	
4	W.	
5	Th.	
6	F.	Duke of Edinburgh born, 1844
7	S.	Trinity Law Sittings end
8	S.	Eleventh Sunday after Trinity
9	M.	
10	T.	
11	W.	
12	Th.	Grouse Shooting begins
13	F.	
14	S.	
15	S.	Twelfth Sunday after Trinity
16	M.	Gas first introduced in London, 1807
17	T.	
18	W.	
19	Th.	
20	F.	
21	S.	
22	S.	Thirteenth Sunday after Trinity
23	M.	
24	T.	
25	W.	Professor Faraday died, 1867
26	Th.	
27	F.	
28	S.	
29	S.	Fourteenth Sunday after Trinity
30	M.	
31	T.	

SEPTEMBER.

1	W.	Partridge Shooting begins
2	Th.	
3	F.	
4	S.	
5	S.	Fifteenth Sunday after Trinity
6	M.	
7	T.	
8	W.	
9	Th.	
10	F.	
11	S.	
12	S.	Sixteenth Sunday after Trinity
13	M.	
14	T.	
15	W.	
16	Th.	
17	F.	
18	S.	
19	S.	Seventeenth Sunday after Trinity
20	M.	
21	T.	
22	W.	
23	Th.	
24	F.	
25	S.	
26	S.	Eighteenth Sunday after Trinity
27	M.	
28	T.	
29	W.	Michaelmas Day
30	Th.	

OCTOBER.

1	F.	Cambridge Michaelmas Term begins
2	S.	Congress and Exhibition opened at Stafford, 1878
3	S.	Nineteenth Sunday after Trinity. Congress
4	M.	[and Exhibition opened at Leamington, 1877]
5	T.	
6	W.	
7	Th.	
8	F.	
9	S.	
10	S.	Twentieth Sunday after Trinity
11	M.	Old Michaelmas Day. Oxford Michaelmas Term
12	T.	[begins]
13	W.	
14	Th.	Severe Storm at Leamington, 1877
15	F.	
16	S.	
17	S.	Twenty-first Sunday after Trinity
18	M.	
19	T.	
20	W.	
21	Th.	Congress and Exhibition opened at Croydon, 1879.
22	F.	[Last day for giving Notice of Examination.
23	S.	[Meeting Council Sanitary Institute.
24	S.	Twenty-second Sunday after Trinity
25	M.	Dr. Ramsey died, 1876
26	T.	
27	W.	
28	Th.	Last day to pay Fees for Examination
29	F.	
30	S.	
31	S.	Twenty-third Sunday after Trinity

NOVEMBER.

1	M.	
2	T.	Michaelmas Law Term begins
3	W.	
4	Th.	Examination Surveyors and Inspectors of
5	F.	[Nuisances]
6	S.	
7	S.	Twenty-fourth Sunday after Trinity
8	M.	
9	T.	Prince of Wales born, 1841
10	W.	
11	Th.	
12	F.	
13	S.	
14	S.	Twenty-fifth Sunday after Trinity
15	M.	
16	T.	
17	W.	
18	Th.	
19	F.	
20	S.	Suez Canal opened 1869
21	S.	Twenty-sixth Sunday after Trinity. Crown
22	M.	[Princess of Germany born, 1810.
23	T.	Michaelmas Law Term ends
24	W.	
25	Th.	Council Meeting, Sanitary Institute
26	F.	Election of First London School Board, 1870
27	S.	
28	S.	Advent Sunday
29	M.	
30	T.	St. Andrew. Royal Society Instituted, 1660

DECEMBER.

1	W.	Princess of Wales born, 1844
2	Th.	
3	F.	
4	S.	
5	S.	Second Sunday in Advent
6	M.	
7	T.	
8	W.	Plague of London began, 1665
9	Th.	
10	F.	
11	S.	
12	S.	Third Sunday in Advent. Prince Albert d. 1861. [Princess Alice d. 1878.]
13	M.	
14	T.	
15	W.	
16	Th.	Cambridge Michaelmas Term ends
17	F.	Oxford Michaelmas Term ends
18	S.	Council Meeting, Sanitary Institute
19	S.	Fourth Sunday in Advent
20	M.	
21	T.	
22	W.	
23	Th.	
24	F.	
25	S.	Christmas Day
26	S.	First Sunday after Christmas
27	M.	Bank Holiday
28	T.	
29	W.	
30	Th.	
31	F.	

SANITARY INSTITUTE OF GREAT BRITAIN.

FORMATION OF THE INSTITUTE.

THE increasing importance attached to Sanitary Science, and the recognized position it is assuming in the public mind, appeared to the promoters of the Sanitary Institute fully to justify the formation of a National Society, the object of which should be to devote itself *exclusively* to the advancement of all subjects bearing upon Public Health. In furtherance of the object, a meeting was held at St. James's Hall, on the 13th July, 1876, at which His Grace the Duke of Northumberland presided, when it was unanimously resolved:—

First—"That in the opinion of this meeting the Sanitary condition of this country is still very unsatisfactory and that further legislation is necessary with a view to its improvement; and that for the purpose of collecting and imparting information upon all matters connected with the subject of 'Public Health' a Society be now formed to be styled 'The Sanitary Institute of Great Britain.'"

Second—"That the gentlemen whose names are appended be requested to act as a Committee (with power to add to their number) for the purpose of carrying out the previous resolution and of reporting to an adjourned public meeting to be held during the second week in October next."*

The Committee appointed to report upon the subject considered it would add greatly to the usefulness of the Institute if Mayors of Boroughs, Chairmen of Local Boards, Sanitary Authorities, Medical Officers of Health, and all who have to administer the Public Health Acts, would associate themselves with the Institute, either in their individual or corporate capacity, and take part in its proceedings. By thus bringing their united knowledge and experience to bear upon Sanitary matters, the Laws relating to the same would become better known and be more efficiently administered.

* An adjourned public meeting was held on the 14th of March, 1877, when the report was unanimously adopted and a Council subsequently appointed to carry it into effect.

BASIS OF THE CONSTITUTION OF THE INSTITUTE.

SECTION I.

Charter of Incorporation, Membership and Government of the Institute.

As soon as practicable a Charter of Incorporation shall be obtained, as it will facilitate some portions of the work of the Institute, more especially the Examinations as set forth in Section II. Until a Charter is obtained, the examinations shall be continued as heretofore, and a Register of persons certificated as competent to act as Local Surveyors and Inspectors of Nuisances shall be formed.

The Institute shall consist of Fellows, Members, Associates, and Subscribers.

Fellows shall be elected by ballot by the Council, and shall include scientific men of eminence, persons of distinction as Legislators or Administrators, and others, who have done noteworthy Sanitary work.

All Fellows (except those who have already become Life Members) shall pay a fee of Ten Guineas on taking up the Fellowship, and such fee shall entitle the Fellow to all the privileges and advantages of the Institute for life without further payment.

Any person proposed by five Fellows or Members, shall be eligible for election as a Member of the Institute.

Members shall be elected by ballot by the Council, and shall be eligible to serve on the Council, and to vote at all Elections and Meetings of the Institute. The Admission Fee payable by a Member shall be £3. 3s, and the Annual Subscription £2. 2s.

Medical Officers of Health and Medical Men holding Certificates in Sanitary Science from any University or Medical Corporation shall be entitled to be enrolled as Members of the Institute without Admission Fee.

Members desirous of becoming Life Members may do so on payment of £10. 10s in lieu of the Annual Subscription.

All persons who have passed the Examination and received the Certificate for Local Surveyor from the Institute, shall, by virtue of having so passed, become Members of the Institute upon the payment of Five Guineas (without Annual Subscription) in addition to the fee paid for the Examination and Certificate.

Any one proposed by two persons, either Fellows, Members, or Associates of the Institute, shall be eligible to be elected as an

Associate of the Institute, the election to be by ballot by the Council. The Admission Fee payable by Associates shall be Two Guineas, and the Annual Subscription One Guinea.

All persons who have passed the Examination and received the Certificate for Inspector of Nuisances from the Institute, shall, by virtue of having so passed, become Associates of the Institute upon the payment of Three Guineas (without Annual Subscription) in addition to the fee paid for the Examination and Certificate.

Persons of either sex, interested in the advancement of Sanitary Science, shall be entitled to be enrolled as Subscribers on payment of One Guinea annually. Annual Subscribers shall be entitled to attend and to take part in the discussions at all Meetings and Congresses of the Institute, and shall have free admission to the Conversaciones and Exhibitions of Sanitary Appliances held in connection with the Institute, so long as they continue to pay their Subscription.

Donors of Ten Guineas and upwards shall be entitled to be enrolled as "Life Subscribers," with all the privileges and advantages of Annual Subscribers without further payment.

Subscribers of Half-a-Guinea to any Congress of the Institute shall be entitled to a card of admission to the Meetings, Addresses, Conversazione, Excursions, and Exhibition held in connection with that Congress.

The Institute shall be governed by a President, Vice-Presidents, and a Council of Twenty-four, consisting of Fellows and Members of the Institute, of whom not less than two-thirds shall be Fellows. The Council shall be chosen by the Fellows, and Members. One-fourth of the Council shall retire annually, and shall not be eligible for re-election for one year.

The first President of the Institute shall be His Grace the Duke of Northumberland. Future Presidents and Vice-Presidents shall be elected by the Council. The Council shall have the power of electing Honorary Members of the Institute, Honorary Foreign Associates, and Corresponding Members of the Council.

SECTION II.

Objects of the Institute.

To devote itself to the advancement of Sanitary Science and the diffusion of knowledge relating thereto.

To examine and to grant Certificates of competence to Local Surveyors and Inspectors of Nuisances, and to persons desirous of becoming such or of obtaining the Certificate. The Examinations shall be held at such times and in such places as the Council may direct.

A Board of Examiners shall be appointed by the Council; such Board shall consist of gentlemen representing Medical, Chemical,

and Sanitary Science, Engineering, Architecture, and Sanitary Jurisprudence.

The Examination for Local Surveyors shall include a competent knowledge of the Statutes relating to Sanitary Authorities, of Sanitary Science and Construction, and of Engineering.

The Examination for Inspectors of Nuisances shall comprise the elements of Sanitary Science, together with Sanitary Construction, and the Statutes relating to the prevention of disease and the suppression of nuisances injurious to health.

Fees shall be charged for the Examinations and a certificate of competence, signed by the Examiners, shall be granted to successful candidates, entitling them to be designated as "Certificated by the Sanitary Institute of Great Britain."

The Institute shall take such steps as may be within its power to obtain a complete registration of sickness, especially of preventable diseases.

The Institute shall endeavour to secure the services of medical men and others specially qualified to give lectures on subjects relating to the prevention and spread of disease.

The Institute shall encourage the formation of classes for technical instruction in Sanitary Science in such a way as may seem advisable to the Council.

Exhibitions of Sanitary Apparatus and Appliances shall be held from time to time as the Council may direct.

Fellows, Members, Associates, and Subscribers shall have the right of Free Admission to the Exhibitions of the Institute whenever they are open. All fees payable by Exhibitors and the Public shall be fixed by the Council and belong to the Institute.

A Catalogue shall be published under the direction of the Council as a permanent record of the Exhibitions.

A Library shall be formed in connection with the Institute.

A Congress shall be held by the Institute for the consideration of subjects relating to Hygiene at such times and places as the Council may direct.

THE INSTITUTE.

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 DR. LADREIT DE LA CHARRIÈRE, Médecin-en-Chef des Sourds-muets.
 DR. CHARLES SAFFRAY, Secrétaire de la Société Française d'Hygiène.
 MALACHIA DE CRESTOFORIS, Dottor Fisico, &c., &c., &c., Milan.
 PROF. E. DOCTOR JAETANUS PENI, Milan.
 PROF. PAULO GORINI, Milan.
 PROF. LUDOVIC BRUNETTI, Prof. d'Anatomie Pathologique, Padua.

Examination of Local Surveyors and Inspectors of Nuisances.

THE great and increasing importance of the duties devolving upon Local Surveyors and Inspectors of Nuisances, in connection with the various Statutes relating to Public Health, and the Sale of Food and Drugs Act, has led the Council of the Institute to establish voluntary examinations, for Local Surveyors and Inspectors of Nuisances, and for persons desirous of becoming such or of obtaining the Certificate of the Institute.

Each Examination occupies a portion of two days. On the first day, the Examination of Surveyors is continued for four hours, viz., from 2 to 4, and 6 to 8 p.m., and consists of written papers only. Inspectors of Nuisances have two hours written examination on the first day, viz., from 4 to 6 p.m. On the second day the Examination, for both classes, commences at 11 a.m., and is *vid roce*, with one or more questions to be answered in writing *if deemed necessary*. A Certificate of Competence signed by the Examiners is granted to successful Candidates.

As Rural Sanitary Authorities are able under the Public Health Act, 1875, to obtain almost all the powers of Urban Sanitary Authorities it is not considered advisable to make any distinction in the Examination of the two classes of Surveyors.

As one person may, under the Public Health Act, 1875, be both Local Surveyor and Inspector of Nuisances, candidates wishing to obtain the double qualification may enter for both Examinations on the same occasion.

Candidates are required to furnish to the Council of the Institute satisfactory testimonials as to personal character, and to give two weeks' notice to the Secretary previous to presenting themselves for Examination, stating whether they wish to be examined as Surveyors, as Inspectors of Nuisances, or as both. The fee for the Examination must be paid to the Secretary, by Post Office-Order or otherwise, at least six days before the day of Examination. On receipt of the fee, a Ticket will be forwarded admitting to the Examination.

The fees payable for the Examination are as follows:—

For Surveyors £5. 5s.
For Inspectors of Nuisances . . £2. 2s.

Unsuccessful candidates are allowed to present themselves a second time for one fee. Examinations during the year 1880 are appointed to be held:—

On Wednesday and Thursday, February 4th and 5th.

On Tuesday and Wednesday, June 2nd and 3rd.

On Thursday and Friday, November 4th and 5th.

Forms to be filled up by candidates previous to Examination will be supplied on application to the Secretary, 20, Spring Gardens, London.

BOARD OF EXAMINERS.

H. C. BARTLETT, Esq., PH.D., F.C.S.
ALFRED CARPENTER, M.D. LOND., S.S.O. CERTIF. CAMB.
PROFESSOR F. S. B. F. DE CHAUMONT, M.D., F.R.S., Army Medical School, Netley.
PROFESSOR W. H. CORFIELD, M.A., M.D. OXON., F.R.C.P., University College.
W. EASSIE, Esq., C.E., F.I.S.
ROGERS FIELD, Esq., B.A., MEM. INST. C.E.
CAPTAIN DOUGLAS GALTON, C.B., F.R.S.
W. H. MICHAEL, Esq., Q.C., F.C.S.
ERNEST TURNER, Esq., F.R.I.B.A.

SYLLABUS of SUBJECTS for EXAMINATION.

FOR LOCAL SURVEYORS.

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 Bye-Laws issued by the Local Government Board.

SEWERAGE AND DRAINAGE—The Sanitary principles which should be observed in the preparation of schemes for, and the construction of Sewerage Works; the ventilating and flushing of Sewers and Drains; the internal Drainage and other Sanitary arrangements of Houses, Privies, Water-closets, Dry-closets, and the removal of refuse; the Sanitary details of Builders' and Plumbers' Work.

WATER SUPPLY OF TOWNS AND HOUSES—The Sanitary principles which should be observed in the preparation of schemes for, and the construction of Water-works; the various ways in which water is likely to become polluted, and the best means of ensuring its purity.

REGULATIONS OF CELLAR DWELLINGS AND LODGING HOUSES—General principles of Ventilation; the amount of air and space necessary for men and animals; the means of supplying air, and of ensuring its purity.

HIGHWAYS AND STREETS—The Sanitary principles which should be observed in the construction and cleansing of Streets and Roads.

FOR INSPECTORS OF NUISANCES.

A thorough knowledge of the Provisions of the Acts and Model Bye-Laws relating to the duties of Inspectors of Nuisances; also of the Working of the Sale of Food and Drugs Act.

A fair knowledge of the Principles of Ventilation, and of simple Methods of Ventilating Rooms—Measurement of Cubic Space.
 A knowledge of the Physical Characters of good Drinking-Water—the various ways in which it may be polluted, and the means of preventing pollution—Methods of Water Supply.
 A knowledge of the proper Conditions of good Drainage.
 The advantages and disadvantages of various Sanitary Appliances for Houses—Inspection of Builders' and Plumbers' Work.
 A knowledge of what constitutes a Nuisance arising from any Trade, Business, and Manufacture.
 A fair knowledge of the characteristics of good and bad Food (such as Meat, Fish, Milk, Vegetables), so as to be able to recognize unsoundness.
 Some knowledge of Infectious Diseases, and of the Regulations affecting persons suffering or recovering from such diseases.
 A knowledge of the best Methods of Disinfection.
 Methods of Inspection, not only of Dwellings, Dairies, Milk Shops, but of Markets, Slaughter-Houses, Cow-Sheds, Bake-Houses, and Offensive Trades.
 Scavenging and Disposal of Refuse.

CANDIDATES WHO HAVE RECEIVED CERTIFICATES AS LOCAL SURVEYORS.

Mr. H. W. ROBINSON, Ulverston; Mr. J. PARKER, Bridgwater; Mr. WILLIAM JOHN PEARCE JENKINS, Bodmin, Cornwall; Mr. SIDNEY GOMPERTZ GAMBLE, Grantham, Lincolnshire; Mr. ROBERT HARGER, Skipton, Yorks; Mr. DONALD CAMERON, Exeter; Mr. E. R. TROUZEAU, New Brighton.

CANDIDATES WHO HAVE RECEIVED CERTIFICATES AS INSPECTORS OF NUISANCES.

Mr. F. BOOKER, Birmingham; Mr. W. S. PREBBLE, Blackburn; Mr. THOMAS BLANCHARD, Evesham; Mr. WILLIAM FREDERICK WATTS, Amersham; Mr. JOSEPH ROBINSON, Aston Manor, Birmingham; Mr. WILLIAM WETHERILL, Selby; Mr. CHARLES GANDER, Alcester; Mr. WILLIAM WILKINSON, Salford; Mr. CHARLES HAWKES, Yeovil; Mr. THOMAS HASTINGS DALE, Hull; Mr. THOMAS T. CHUBB, Whitechurch, Salop; Mr. HUGH DAVIES, Wrexham; Mr. WILLIAM HARRIS, Solihull, Warwickshire; Mr. ARTHUR LENNOX CLARKE, Bedford; Mr. BENJAMIN BOLT, Aston, Birmingham; Mr. JOSEPH OSBORNE, Carlisle; Mr. JOSHUA LAPWORTH, Bethnal Green.

EXAMINATION PAPERS, JUNE 3, 1879.

The following questions were required to be answered in writing. A *visà voce* examination took place on the following day.

QUESTIONS FOR SURVEYORS.

JUNE 3, 1879. 2 TO 4 P.M.

1. Mention the chief Acts in force relating to Public Health, and give a brief statement of the objects of each. Which of these Acts refers to the Metropolis?
2. If asked to advise upon the projected drainage of a town, what would be the chief points to which you would in the first place direct your attention? Explain what would be the conditions which would limit your choice of outfall.
3. What method do you recommend for the ventilation of sewers to be laid in—
 (a) comparatively level towns?
 (b) hilly towns?
 What precautions would you take in connecting house drains with sewers? Describe how you would lay the drains in the houses themselves, and how you would make the necessary connections with water-closets, sinks, &c., &c.
4. Where a cesspool for the reception of filth—solid or liquid—is unavoidable, what precautions should be taken in respect of—
 (a) its position?
 (b) its ventilation?
 (c) its connection with house drains?
 (d) its general construction?

6 TO 8 P.M.

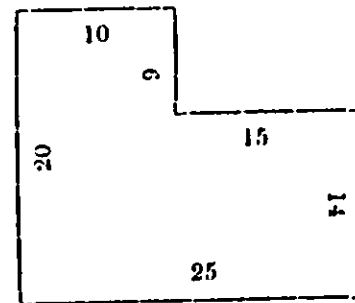
1. If asked to advise as to the water-supply of a town, what are the chief points to which you would direct your attention if the supply is to be derived—
 (a) from wells?
 (b) from streams?
2. What are the conditions of water which affect the question of the material of cisterns in houses? How is water in house cisterns likely to become polluted? What precautions should be taken to guard against such pollution? Is there any danger of pollution when the supply is constant?
3. Define what constitutes a cellar dwelling, and under what conditions may it be occupied under the Act. What are the most common causes of dampness in basement rooms, and what are the respective remedies?
4. In what way does the size of an occupied room influence the quantity of fresh air which must be supplied, and of the vitiated air which must be removed in order to keep the air of the room within a uniform limit of impurity? In what terms would you define the degree of purity of the air, and what is the limit of impurity which should be allowed for health?
5. What are the Sanitary principles which should be observed in the construction and cleansing of streets and roads?

QUESTIONS FOR INSPECTORS OF NUISANCES.

JUNE 3, 1879. 4 TO 6 P.M.

1. What is the definition of a nuisance? Give instances.
2. Mention the rules in the model bye-laws with reference to common lodging-houses. What should guide the Inspector of Nuisances in his examination of premises under this Act?
3. Define overcrowding, and explain how you ascertain if rooms are overcrowded.

In the accompanying sketch, showing the plan of a room which is 12 feet high, what is the cubic space, and how many people would you allow to sleep in it?



4. In inspecting premises, to what points would you direct your attention to ascertain whether the water supply is in proper condition—
(a) in the case of a water supply derived from wells?
(b) in the case of a water supply by town water to cistern?
5. In inspecting houses, to what points would you direct your attention to ascertain whether the drainage is in proper condition?
6. How is butcher's meat to be recognized as being good or otherwise? What would you do if you found unsound meat exposed for sale?
7. In the case of small-pox or scarlet fever breaking out, what are your powers, and what steps would you take?
8. By what faults of construction and management are slaughter-houses most often rendered needlessly offensive, &c., and what are the rules of construction and management which it is most important to enforce with regard to slaughter-houses?

EXAMINATION PAPERS, NOVEMBER 6, 1879.

QUESTIONS FOR SURVEYORS.

NOVEMBER 6, 1879. 2 TO 4 O'CLOCK.

1. Define street. State the Law applicable to every description of street in an Urban Sanitary Authority District, and the rights and obligations and duties of Sanitary authorities, owners and occupiers therein.

2. What are the relative advantages of circular and egg-shaped sewers? In what case are they respectively preferred?
3. Give a specification of a water-tight sewer. Describe and give a sketch of the form of man-hole which you consider best adapted for ordinary town sewers, and state the rule which you adopt for determining the amount of ventilation to be afforded in a main street sewer.
4. In what way does the size and shape of a sewer affect the velocity of sewage flowing through it. If a nine-inch pipe sewer laid at an inclination of 1 in 200 gives a velocity of 3 feet per second, what velocity will it give when laid at an inclination of 1 in 800 (the pipe running full in each case)? Will this velocity suffice to keep it clear from deposits? Describe the various modes which may be resorted to for flushing sewers.
5. Give a description of the process termed intermittent downward filtration. State what area of land you would require with a gravelly soil for applying this method of purifying sewage to a town with a population of 1000 inhabitants; and state the arrangements you would adopt for dealing with the rain-water falling on the roofs, yards and streets.

NOVEMBER 6TH, 1879. 6 TO 8 O'CLOCK.

1. In reporting upon the source of water supply for a town, which are the points to which you would direct your attention?
2. Give a sketch of a D trap, an S trap, a P trap, and a Pan Water Closet.
(Plan of a Dwelling-House annexed.)
3. Criticize the arrangements of this residence as to position of rooms, walls, doors, fire-places, windows, &c., from a Sanitary point of view.
4. Describe the drainage arrangements shown on the plan. Say whether they are satisfactory; if not, in what way they are faulty.
5. Sketch on the plan any other system of drains which you would think preferable.
6. Describe in detail the arrangements necessary for the water-supply of the residence; a bath being fixed in the room over the serving-room, a W.C. on the first floor over that on the ground floor, and a housemaid's sink near.

QUESTIONS FOR INSPECTORS OF NUISANCES.

NOVEMBER 6, 1879. 4 TO 6 O'CLOCK.

1. What power of entry can be exercised by an Inspector of Nuisances?
2. What books should an Inspector keep, and how should he enter his work in them?
3. What is a water-trap? What are its objects? Give examples of good and bad traps.

4. What materials are used for soil-pipes? Which do you prefer? What faults are likely to be found in them? How should they be ventilated?
5. Mention some offensive trades. Describe what points you would look to in inspecting any one of them with which you are acquainted?
6. A case of typhus fever is reported to you. What would you do?
7. What is a cellar-dwelling? Under what conditions may it be legally inhabited?
8. How do you recognize diseased meat? If you found such meat exposed for sale, what would you do?

VISITORS duly appointed by the following bodies are invited to be present at the Examinations; (a) The Local Government Board; (b) The Institute of Civil Engineers; (c) Associations of Medical Officers of Health; (d) The Royal Institute of British Architects; (e) The Association of Municipal and Sanitary Engineers and Surveyors; (f) The Institution of Surveyors.

FELLOWS, MEMBERS, ASSOCIATES, and SUBSCRIBERS will receive notice from time to time of the dates upon which the Annual and General Meetings will be held during the year.

REPORT OF THE JUDGES OF THE EXHIBITION HELD AT CROYDON, 1879.

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

MEDALS.

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

- AVELING and PORTER, *Rochester*, for Improved Six-Ton Steam Road Roller.
- DOULTON and Co., *Lambeth*, for Patent Anti-Perussion High-Pressure Valves.
- FRASER, BROS., *Commercial Road East, London*, for Patent Portable Disinfecting Apparatus.
- HAMILTON and Co., 255, *Kingsland Road, London*, for Patent Prismoidal Pavement, and Floor Lights.
- LASCHELLES, WILLIAM, 121, *Bunhill Row, London*, for Concrete Bath, in one piece.
- SINCLAIR, JAMES, 104, *Leadenhall Street, London*, for "Tyndall's" Smoke Respirator.

- WALKER, CHARLES W., 1, *Chivalry Road, Wandsworth Common*, for Acid Pump and Syphon.
- WENHAM, W. P., 81, *Church Street, Croydon*, for an Improved Open or Closed Range Kitchener.
- WILLCOCKS and Co., *Burmantofts, Leeds*, for Silica Glazed and Enamelled Fire Clay Bricks and Faience.

CERTIFICATES.

We further recommend that CERTIFICATES of MERIT be awarded to the undermentioned Exhibitors:—

- ADAMS, R., 7, *Great Dover Street, London, S.E.*, for Patent Adjustable Shoe, and Regulating Spring Hinge for Swinging Doors.
- ADAMS, R., 7, *Great Dover Street, London*, for Fanlight Openers and Casement Fasteners.
- BALL, ANSELL, *Spalding, Lincolnshire*, for Patent Folding Invalid Bed.
- BEARD, DENT, and HELLIER, 21, *Newcastle Street, Strand, London, W.C.*, for Patent "Ventilating Drain Syphon."
- *BILLING and Co., *Hatton Garden, London, W.C.*, for the "Workman's" Cooking Stove, and other Improvements in Gas-Cooking Stoves.
- BIRD, PETER HINCKES, F.R.C.S., 1, *Norfolk Square, London*, for his method of "Costless Ventilation."
- BRAY and Co., *Blackman Lane, Leeds*, for Improved Gas Burners.
- BUSSEY and Co., *Museum Works, Rye Lane, Peckham, London*, for Patent Spring Mattress.
- *CHORLTON and DUGDALE, 19, *Blackfriars Street, Manchester*, for "Excelsior" Spring Mattress Hospital Beds.
- CLARK, F. W., PORTABLE GAS APPARATUS COMPANY (Limited), *Great Queen Street, Lincoln's Inn Fields, London, W.C.*, for Patent Portable Gas Apparatus, for Manufacturing Gas from Gasoline.
- DOULTON and Co., *Lambeth*, for Decorative Tiles for covering walls and floors.
- DOULTON and Co., *Lambeth*, for Disconnecting Gully, with back and side entrances and iron grating.
- EDWARDS, J. C., *Trefnant, Ruabon, North Wales*, for Dean's Patent External Drain Traps, with movable receptacle.
- *ELLISON, J. E., *Victoria Square, Leeds*, for Conical Ventilators.
- FINCH and Co., *Sanitary Works, 181, High Holborn, London, W.C.*, for Large-way Waste Plug, with protective cover.
- HAMMOND and HUSSEY, *High Street, Croydon*, for Hornibrook's Patent Catchment Grating for Steep Gradients.
- HEADLEY and SON, *Exchange Ironworks, Cambridge*, for Patent Hose Reel.
- HYGIENIC STOVE and GRATE COMPANY, 15, *Peel Buildings, Birmingham*, for "Eagle" Sanitary Trap, for superseding Bell Traps.
- JENNINGS, GEORGE, *Stangate, London*, for "Artizans Dwellings Sink."
- JENNINGS, GEORGE, *Stangate, London*, for "Universal" Shampooing Apparatus.

- KNELL, U., 77, *Fore Street, London, E.C.*, for his "Imperial" Ventilating Window.
- *LEGRAND and SUTCLIFFE, 100, *Bunhill Row, London, E.C.*, for Improvements in internal driving of Tubo Wells.
- LEWIS, Mrs. AMELIA, 37, *Blackfriars Street, Manchester*, for Patented Tin Cooking Utensils.
- *MOULE'S PATENT EARTH CLOSET Co. (Limited), 5a, *Garrick Street, London, W.C.*, for Patent Earth Closet.
- ONIONS, JOHN C. (Limited), *Birmingham*, for Moser's Patent Self-Acting Dry Closet.
- PATENT VICTORIA STONE COMPANY, 305, *Kingsland Road, London*, for Artificial Stone Tubes.
- *POCOCK BROTHERS, 235, *Southwark Bridge Road, London, S.E.*, for "Universal" Tubular Air and Water Bed.
- PRITCHETT, G. E., F.S.A., *Bishops Stortford*, for Barometrical and Thermometrical Instruments.
- *PRITCHETT, G. E., F.S.A., *Bishops Stortford*, for Improvements in Hollow Tile Flooring.
- RANSOME, S. E. and Co., 10, *Essex Street, Strand, London*, for Milwaukee Glass Lantern or Hurricane Lantern.
- *SANITARY APPLIANCE COMPANY, *Factory Lane, Salford*, for Morrell's Patent Cinder-Sifting Ash Closet.
- SELIG, SONNENTHAL and Co. (Limited), *Lambeth Hill, Queen Victoria Street, London, E.C.*, for Patent Safety Belt Shippers.
- SHARP, JONES, and Co., *Bourne Valley Pottery, Poole, Dorset*, for Rock Concrete Tubes.
- SINCLAIR, JAMES, 104, *Leadenhall Street, London*, for Chemical Fire Exterminator.
- STIDDER and Co., 50, *Southwark Bridge Road, London, S.E.*, for Swivel, Lock Plug and Overflow for Sinks.
- STRETTON, SAMUEL, M.R.C.S., *Kidderminster*, for a Folding Bier and Car, for simplifying funerals.
- WALLER, THOMAS, 47, *Fish Street Hill, London*, for Cooking Stove with Warm-Air Chamber.
- WEBSTER and Co., *Market Street, Nottingham*, for Webster's Patent Photometer.
- WENHAM, W. P., 81, *Church Street, Croydon*, for Boyle's Mica Valved Outlet Ventilator.
- WILLCOCK and Co., *Burmantofts, Leeds*, for Fire Clay Sanitary Sinks and Water Troughs.

There are two classes of exhibits which we recommend should be excluded from awards of Medals—namely, those which were exhibited at Leamington or Stafford and to which a Medal was then awarded; some of which we recommend should receive Certificates, and these we have distinguished in the foregoing lists by asterisks; and secondly, objects exhibited or invented by any of the Judges themselves, such as Mr. WILLIAM EASSIE's exhibit of Specimens of "Bad Plumbing," and Mr. ROGERS-FIELD's Self-Acting Flush Tank, exhibited by Messrs. H. DOULTON and Co.

The undermentioned articles we are unable to express an opinion

upon without testing; and we recommend that they should be tested at the expense of the Exhibitors, if they are willing to incur the same.

DEFERRED FOR PRACTICAL TRIAL.

AERATED WATERS.

- EVANS and Co., *Wrexham, Zoedone* (Patentee, David Johnson, F.C.S.)
- GULLIVER and Co., *Aylesbury*, Mineral and Aerated Waters.
- NEWRY MINERAL WATER Co. (Limited), *Islington, Liverpool*, Ginger Ale, Ginger Beer, Lemonade, &c.
- PACKHAM, JAMES, 16, *Catherine Street, Croydon*, Aerated Waters in Silvered Syphons; Spécialité Seltzer Water.

DISINFECTANTS.

- CALVERT and Co., *Bradford, near Manchester*, Carbolic Acid.
- JEYES' SANITARY COMPOUNDS COMPANY (Limited), 54½, *Bishopsgate Street Within, London, E.C.*, Jeves' Perfect Purifier.
- JONES, W., 37, *Mincing Lane, London*, Lusto-Disinfecting Fluid.
- MACKEY, SELLERS, and Co., 102, *Bouverie Street, London*, Oxychlorogene.
- SANITAS COMPANY, *Three Colt Lane, Bethnal Green*, Sanitas Disinfecting Fluid.
- SUTTON and PHILLIPS, *Stowmarket, Sporohton* (Professor Tuson's Patent).
- WHITE, W. T., 232, *Kennington Road, London*, Euchlorine Disinfectant.

FILTERS.

- FLOOD and Co. (Limited), *Holland Street, Blackfriars Road, London, S.E.*, Bailey Denton's Filter.
- MAIGNEN, P. A., 22 and 23, *Great Tower Street, London, E.C.*, Patent "Filtre Rapide."
- RANSOME, S. and E., & Co., 10, *Essex Street, Strand, London*, Porous Slabs and Rain-Water Filters.

HOPPER CLOSETS (one specimen each).

- BEARD, DENT, and HELLYER, 21, *Newcastle Street, Strand, London, W.C.*, Artizan Closet.
- CARSLEY, W. S., 18, *Bartholomew Close, London, E.C.*, Jewell's Hopper Closet Basin with Washer Clip, and Iron Trap with connecting T piece in one casting.
- DOULTON and Co., *Lambeth, London*.
- RAMSEY, WILLIAM (Limited), *Farringdon Street, London, W.C.*, Dodd's Ventilating Hopper Closet.
- SMITH, THOS. and Co., *Old Kent Road, London, S.E.*
- STIDDER, J. G., 50, *Southwark Bridge Road, London, S.E.*, Infirmary Closet.
- WARNER and SONS, *Cripplegate, London, E.C.*, Sharp's Hopper Closet.

"WASH-OUT" CLOSETS (one specimen each).

- BOSTEL, D. T., 18 and 19, *Duke Street, Brighton*, Brighton Excelsior.
 DOULTON and Co., *Lambeth, London*.
 OWEN, HENRY, 16, *Sussex Place, South Kensington, London*.
 RAMSEY, WILLIAM (Limited), *Farringdon Street, London*, Dodd's Ventilating "Wash-out."
 STIDDER, J. G., 50, *Southwark Bridge Road, Singlo-Arm Flushing Monkey*.

SPECIAL CLOSETS.

- DOULTON and Co., *Lambeth, Fowler's Self-acting Closet*.

WASHING and WRINGING MACHINES (one specimen each).

- BELL, J. M. and Co., 491, *Oxford Street, London*.
 BRADFORD, THOMAS, 60, *High Holborn, London*.
 DONALD and Co., 33, *Cornhill, London*.
 GREEN, THOMAS and SON (Limited), 54, *Blackfriars Road, London*, Monarch Washing, Wringing and Mangling Machine.
 RYAN and RYAN, *Imperial Arcade, Ludgate Hill, London*.
 TWELVETREES, HARPER, 40, *Finsbury Circus, London*.

WATER HEATERS.

- DAVIS, M. and C., 286-290, *Camberwell Road, and 1, The Pavement, Clapham Common, London*, Gas Bath, with Copper "Tudor" Boiler.
 EWART and SON, 406, *Euston Road, London, N.W.*, Crown Gas Boilers, for instantly turning cold water into hot. Gas Baths.
 HAMMOND and HUSSEY, 10 & 11, *High Street, Croydon*, an Improved Gas Bath and Boiler complete.
 HELLIER, William, 19, *Duke Street, Grosvenor Square, W.*, Two Instantaneous Water Heaters, heated by Gas.
 MART and BRADLEY, 16, *York Street, London Road, and 109, Fenchurch Street, London, E.C.*, the Instant Bath, Water Heater, and Thermal Font, Cabinet Wash Stand, with Water Heater attached.
 SIDDAWAY, E. and SONS, *George Street, West Bromwich*, a Patent Water Heater for Baths, to heat a gallon of water per minute to 100 degrees, a Patent Water Heater for Lavatories.

MISCELLANEOUS.

- BRAITHWAITE and Co., *Swinegate, Leeds*, Patent Syphon for Water-Closet Cisterns.
 CARSLEY, W. and S., 18, *Bartholomew Close, London*, Urinals, Iron Traps, and Sink, coated by Professor Barff's process.
 FINCH and Co., 60, *High Holborn, London*, a 4-inch Ball Valve for large Cisterns with Balanced Valves.
 GARDNER, FREDERICK, *Hereford Road, Bayswater, London*, Patent Level Cot for use on shipboard.
 KEEN and SON, *Church Street, Croydon*, Gay's Solution.

- LASCELLES, WILLIAM, 21, *Bunhill Row, London*, Concrete Constructions.
 POTTER and SONS, *Oxford Street, London*, H. Saxon Snell's Patent Ventilating Hot-Water Open Fire-Grate (The Thermhydric).
 PAMPHILLON and Co., *Whittlesford, Cambridge*, Patent Smoko Consumer (Peyton's Patent).
 READ, JEFFERSON, *Arcanum Plating Works, Birmingham*, The Arcanum Process of Silver Plating Steel.
 RYAN and RYAN, *Imperial Arcade, Ludgate Hill, London*, Rain-Water Percolators.
 SILICATE PAINT COMPANY, *Charlton, Kent*, Enamel Paint, Petrifying Liquid and Paints exhibited.
 STIDDER and Co., 50, *Southwark Bridge Road, London*, Urinette.
 WOOLLAMS, W. and Co., 110, *High Street, Manchester Square, London*, Paper Hangings stated to be free from Arsenic.

Until the deferred trials have been carried out we are unable to award the Gold Medal of the Institute.

We have found that alterations have been made in certain exhibits to which Medals or Certificates were given, by which alterations some of the essential merits for which the Medals or Certificates were awarded have been destroyed. Notwithstanding such alterations, the exhibits are advertised and stamped as having received the Medals or Certificates. We therefore recommend that notice of this should be taken by the Council; and that in future each person receiving Medals or Certificates should be warned against using the name of the Sanitary Institute in connection with any article which has been altered since the award was made.

We also advise that in future the Exhibitors must give full particulars of each exhibit in order that a proper number may be fixed to it in the Catalogue.

(Signed)

W. H. CORFIELD.
 ROGERS FIELD.
 W. EASSIE.
 H. C. BARTLETT. } Judges.

NOTICE TO EXHIBITORS.

The Exhibitions of Sanitary Appliances are held annually in connection with the Autumn Congress, and unpatented exhibits are protected by a certificate granted by the Board of Trade, under the Protection of Inventions Act, 1878.

Judges are appointed by the Council to examine the several exhibits, and award Medals and Certificates of merit to such objects as they may consider worthy.

In addition to the Ordinary Medals, a special Gold Medal is offered by the Institute, for a selected exhibit from the entire exhibition, and will be awarded by the Judges, in case of pre-eminent merit only. Selected exhibits of such a nature as to require practical trials which cannot be carried out on the spot, are submitted to such further trials upon the Exhibitors' defraying the necessary expenses.

The following table gives particulars with reference to the exhibitions already held.

TABLE A.

		1877. Leamington.	1878. Stafford.	1879. Croydon.
1	Number of Exhibitors .	117	116	189
2	„ of Exhibits .	294	319	710
3	Space occupied .			
4	Number of days Exhibition was open .	14	16	17
5	Total number of Visitors .			
6	Number of Medals awarded	13	12	9
7	Number of Certificates awarded .	None.	26	40
8	Number of Exhibits deferred for further trial .		7	52

REPORT OF THE JUDGES OF THE EXHIBITION HELD AT STAFFORD, 1878.

THE SPECIAL MEDAL OFFERED BY DR. RICHARDSON FOR A SELECTED EXHIBIT TAKEN FROM THE ENTIRE EXHIBITION WAS AWARDED TO

SILICATE PAINT COMPANY, for Griffiths' Patent White.

THE MEDAL OF THE INSTITUTE WAS AWARDED TO THE
FOLLOWING.

POCOCK BROTHERS, *Southwark Bridge Road, London*, for their Universal Invalid Tubular Water and Air Beds.

BILLING & Co., *Hatton Garden, London*, for their Apparatus for Cooking by Gas.

S. LEONI & Co., *Strand, London*, for their Apparatus for Cooking by Gas.

THE SILICATE PAINT COMPANY, *Cannon Street, London*, for Griffiths' Patent White, and for their Preparations of Silicate Paint, Enamel Paint and Petrifying Liquid.

DOULTON & Co., *Lambeth, London*, for Stanford's Patent Joints for Stoneware Pipes.

MOULE'S PATENT EARTH-CLOSET COMPANY, *Garrick Street, London*, for their Earth Closets.

MAJOR F. DUNCAN, R.A., *the Common, Woolwich*, for Ambulance Wheeled Litter.

THE SANITARY APPLIANCE COMPANY, *Factory Lane, Salford*, for Portable Cinder Sifting Ash-closet, with Soil Pail.

G. E. PRITCHETT, *Fish Street Hill, London*, for Economic Hollow Flooring.

HASSALL & SINGLETON, *Phoenix Foundry, Freeman Street, Birmingham*, for the Phoenix Portable Range, and the Birmingham Range, with Reducible Fire, without Gas.

JAS. E. ELLISON, of *Leeds*, for Conical Ventilators.

MORRIS, LITTLE, & Co., of *Doncaster*, for Little's soluble Phenyle.

TO RECEIVE *Certificates of Merit*.

James Stiff & Sons, *Lambeth, London*, for Weaver's Ventilating Sewer Air Trap.

Potts & Co., *Handsworth, Birmingham*, for The Patent Edinburgh Air Chambered Sewer Trap.

**Thomas Bradford & Co.*, *Crescent Iron Works, Salford*, for new Patent "Shuttle" Steam-power Washing Machine.

Thomas Allen, *St. Augustine's Parade, Bristol*, for Patent Metallic Tubular Bedsteads and Invalid Bedrests.

William Hamilton, *Ship Street, Brighton*, for Invalid Grasshopper Couch.

- **Chorlton & Dugdale*, Blackfriars Street, Manchester, for "Excelsior" Patent Spring Mattress.
- Ruffard & Co.*, Clay Works, Stourbridge, for their Porcelain Baths, Moulded and Glazed in one piece.
- W. H. Hilton*, Spencer Street, Leamington, for Various Inventions for promoting Domestic Economy.
- **F. and C. Hancock*, Dudley, for Machine for Washing and Cooling Butter.
- **G. H. Harris*, Bristol Street, Birmingham, for Economical Cooking Range.
- The Patent Composite Fire-light Company*, Fenchurch Street, London, for The Compostella Fire-lights, for lighting fires.
- S. Leoni & Co.*, Strand, London, for The "Rheometer" Street-Lamp Regulator.
- London Necropolis Company*, Lancaster Place, Strand, for Patent "Earth to Earth" Coffins.
- Thomas Larmouth & Co.*, Cross Lane, Salford, for Dual Desk with separate Gangway Seat.
- Colman & Glendenning*, Chalk Hill Works, Norwich, for School Desks with Shifting Seats.
- Gillow & Co.*, Oxford Street, London, for Patent Lavatory.
- Isaac Shone*, Wrexham, for Pneumatic Liquid Ejector.
- Oates and Green*, Horley Green Fire Clay Works, Halifax, for Patent Drain-cleaning Rods and Stoneware Horse Manger.
- The Ladies' Sanitary Association*, Berners Street, London, for their Publications.
- H. Snell*, Southampton Buildings, Chancery Lane, London, for the Thermohydric Patent Ventilating Hot Water Open Fire Grate.
- G. E. Pritchett*, Fish Street Hill, London, for Warming and Ventilating Appliances and for Thermometrical Instruments.
- Thorn & Co.*, Stafford, for Patent Artificial Stone Filters for cleansing Rain Water for Domestic Use.
- **B. B. Haresceugh & Co.*, Bentinck Street, Leeds, for Excreta Pail (oak) with Patent Spring Lid.
- **Daniel Thomas Bostel*, Duke Street, Brighton, and Golden Lane, London, for Patent "Excelsior" Water Closet.
- Bartrum, Harvey, & Co.* of London, for Patent Ventilatorium Waterproof Garments.
- Jewsbury & Brown*, of Manchester, for Seltzer Water.

* Those marked thus have had the Medal of the Institute awarded to them at a previous Exhibition.

MEDALS awarded by the INSTITUTE to Exhibitors at
Leamington, 1877.

- JOHN BORWELL*, Britannia Foundry, Burton-on-Trent, for improved Washer with Table complete.
- DANIEL THOMAS BOSTEL*, Duke Street, Brighton, and 10, Golden Lane, London, for Patent Excelsior Water Closet.
- THOMAS BRADFORD AND CO.*, Crescent Iron Works, Salford, for New Patent "Shuttle," (Q) Steam Power Washing Machine, specially adapted for use in Hospitals and Asylums.
- CALVERT AND CO.*, Manchester, for "CALVERT'S" Carbolic Acid for Disinfecting purposes.
- CHORLTON AND DUGDALE*, Blackfriars Street, Manchester, for "Excelsior" Patent Spring Mattress.
- THOMAS GALBRAITH*, Crawford Square, Londonderry, for Patent Hot-air Bath.
- F. AND C. HANCOCK*, Dudley, Worcestershire, for Machine for Washing and Cooling Butter.
- B. B. HARESCOUGH AND CO.*, Bentinck Street, Leeds, for Excreta Pail (oak), with Patent Spring Lid.
- G. H. HARRIS*, Bristol Street, Birmingham, for Economical Cooking Range.
- LE GRAND AND SUTCLIFF*, 100, Bunhill Row, London, for Improvements in Well-sinking Apparatus.
- JOHN PARKER*, Woodstock, Oxford, for Dry Earth Closet.
- SPONGY IRON WATER PURIFYING COMPANY*, 505, Oxford Street, London, for BISCHOF'S Spongy Iron Filter.
- SOCIÉTÉ FRANÇAISE D'HYGIÈNE*, for Chemical Preparations and Apparatus.

ADDRESSES AND PAPERS READ BEFORE THE INSTITUTE.

SUBJECT.	NAME OF AUTHOR.	DATE.
The Necessity for Further Sanitary Legislation, with special reference to Mr. Selater-Booth's Pollution of Rivers Bill.	C. F. Gardner ...	July 13th, 1876.
Mode of Treating Town Sewage ...	Sir Joseph Bazalgette, C.B. ...	March 14th, 1877.
Future of Sanitary Science (<i>Annual Address</i>) ...	Dr. Richardson, F.R.S. ...	July 5th, 1877.
Consumption and Climate ...	Dr. Prosper de Pietra Santa ...	July 6th, 1877.
A Theory as to the Natural or Glandular Origin of the Contagious Diseases.	B. W. Richardson, M.D., F.R.S.	At the Congress held at Leamington, Oct., 1877.
The Past and Future of Sanitary Science ...	G. Wilson, M.A., M.D. ...	"
The Present Possibilities of Sanitary Legislation ...	R. Brudenell Carter, F.R.C.S. ...	"
Work of the Birmingham Interception Sub-Committee ...	Lawson Tait, F.R.C.S. ...	"
Demonstrations of the various systems which have been adopted in late Creations of the Human Body.	W. Eassie, C.E. ...	"
Demonstration on the passage of Gases through water in Traps—Lead Pipes corroded by Sewer Gas—Samples of improper plumbing taken out of Houses.	J. A. Russell, M.A., M.D. ...	"
Sewage, Sewerage and Town Refuse ...	Lieut.-Col. Jones, V.C. ...	"
Turpentine and Terebine ...	T. Moffat, M.D., F.R.C.S. ...	"
Influence of Climate on Health ...	Professor F. S. B. F. de Chaumont, M.D. ...	"
Treatment of Domestic Sewage ...	W. White ...	"
Law or Caprice in Contagion ...	J. Sinclair Holden, M.D. ...	"
Water for Domestic Use ...	H. C. Bartlett, Ph.D., F.C.S. ...	"

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SUBJECT.	NAME OF AUTHOR.	DATE.
The Diminution of Insanity which took place during the Political Commotions in France.	Rev. E. Wyatt-Edgell ...	At the Congress held at Leamington, Oct., 1877.
Sewage Disposal and Sanitary Carbon ...	Burton Green ...	"
The necessity of Plumbers and Builders possessing a competent knowledge of the Laws of Health as bearing on their respective occupations.	J. A. Russell, M.A., M.D. ...	"
Cremona—A Sanitary Institution ...	W. Eassie, C.E., F.L.S. ...	"
Sanitary condition of Leamington ...	Joseph S. Baly, M.R.C.S. ...	"
Missing Links in the Sanitary Administrative Service ...	T. J. Dyke, F.R.C.S. ...	"
Woman's Work in relation to Sanitary Science ...	Miss Rose Adams ...	"
Sanitary Work in English Watering Places ...	Edwyn Slade-King, M.D. ...	"
Supply and Storage of Water at East Brent ...	Ven. Archdeacon Denison ...	"
Hone, Sweet Hone ...	Ernest Turner, F.R.I.B.A. ...	"
Effects of Growing Vegetation upon Human Health ...	W. Eassie, C.E., F.L.S. ...	"
New Artesian Water Supply at Leamington ...	Horace Swete, M.D. ...	"
The Dwellings of the Poor in large Towns ...	Henry C. Burdett ...	"
The Influence of the Movement of Subterraneous Water on Health.	Baldwin Latham, M.INST. C.E., F.G.S., F.M.S. ...	"
On the Present and Future Work of Engineers in reference to Public Health.	William Donaldson, M.A., M.INST. C.E. ...	May 31st, 1878.
The Pollution of Rivers and its effects upon the Fisheries & Water Supply of Towns and Villages (<i>Annual Address</i>).	Frank Buckland, M.A. ...	July 3rd, 1878.
The need of reform in the administrative organization of the Sanitary Service, with special reference to the appointment of Medical Officers of Health.	Edwin Chadwick, C.B. ...	At the Congress held at Stafford, October, 1878.

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SUBJECT.	NAME OF AUTHOR.	DATE.
Ozone in relation to Health and Disease ...	Dr. Henry Day, F.R.C.P. ...	At the Congress held at Stafford, October, 1878.
The constitution and function of a Ministry of Health for the United Kingdom.	Dr. B. W. Richardson, LL.D., F.R.S.	"
Sanitary Co-operation ...	Sir Henry Cole, K.C.B. ...	"
The Progress of Air Testing ...	Angus Smith, PH.D., F.R.S. ...	"
Thames Water : its impurities, dangers, and contaminations. Remedy suggested.	Henry C. Bartlett ...	"
The Sewerage of Ancient Rome ...	W. Eassie, C.E., F.L.S. ...	"
The Administration of Public Health Laws ...	E. B. Ellice-Clark, C.E. ...	"
Some Hygienic Conditions of the Pottery Manufacture ...	J. T. Arlidge, M.D., F.R.C.P. ...	"
The Sanitary Defects of Old Towns and Suggested Remedies.	W. Ellis Clendinnen, and James B. McCallum.	"
The Water Supply of Stafford ...	William Molyneux, F.G.S. ...	"
River Inundations ...	William Molyneux, F.G.S. ...	"
The works projected and undertaken during the last thirty years for the Supply of the principal Towns in the County of Staffordshire with Water...	Henry J. Marten, M. INST. C.E.	"
Some observations with respect to the Drainage of the Populous Manufacturing Towns situate upon the Drainage Area of the River Tame and its tributaries north of Birmingham, and as to the means to be adopted to prevent the present and future Pollution of that River.	Henry J. Marten, M. INST. C.E.	"
Public Mortuaries for large Towns ...	William Hardwicke, M.D. ...	"
Hospitals for Infectious Diseases ...	Ernest Turner, F.R.I.B.A. ...	"
The Preventive System of Medical Practice ...	William Ogile, M.D., F.R.C.P.	"

SUBJECT.	NAME OF AUTHOR.	DATE.
Sanitary Science ...	Robert Rawlinson, C.B., Chief Inspector of the Eng. Depart. of the Local Govt. Board.	At the Congress held at Stafford, October, 1878.
Progress in Purifying Sewage by Precipitation ...	Henry Robinson, C.E. ...	"
The Disinfection of Hospital Drains ...	William Soper, M.R.C.S. ...	"
The Chemistry of Dirt ...	H. C. Bartlett, PH.D., F.C.S.	"
The Periodical Sanitary Inspection of Houses ...	D. H. Monckton, M.D. ...	"
The paramount importance of considering economy in all measures undertaken for Sewage Disposal.	Lieut.-Col. Jones, V.C. ...	"
The Compulsory Registration of Infectious Diseases, with special reference to its working at Bolton.	Edward Sargeant, L.R.C.P. ...	"
The necessity for employing more uniform terms in literature relating to Sewage Disposal.	J. C. Melliss, C.E. ...	"
A New Process for Testing Air ...	Professor Wanklyn and W. J. Cooper.	"
The New Pneumatic Sewerage System as compared with Captain Lierneur's and existing Gravitation Systems.	Isaac Shone, C.E. and M.E., F.G.S.	"
New method of preventing the entrance of Sewer Air into houses.	G. A. Heron, M.D. ...	"
The natural principle which should determine the boundaries of Drainage Districts.	Henry Law, M. INST. C.E. ...	"
The advantage of Temperance for the maintenance of Military Force.	Lieut.-Col. Geary, R.A. ...	"
The special provision needed for the maintenance of Military Force by distinct Sanitary Service for the Army.	Lieut.-Col. Geary, R.A. ...	"
Facts upon Sewage Farming ...	R. W. Peregrine Birch, C.E.	"

SUBJECT.	NAME OF AUTHOR.	DATE.
Leprosy and its prevention by Sanitary means ...	Gavin Milroy, M.D., F.R.C.P.	At the Congress held at Stafford, October, 1878.
The Works in progress for the Water Supply of Stafford ...	William Dennis, C.E.	"
The best mode of replacing the Rookeries and Effete Tenements lately removed by the Corporation of London.	John Balbirnie, M.D., M.A.	"
The Establishment of a School for the technical teaching of Sanitary Science.	Lory Marsh, M.D.	"
Food and Drink ...	James Russell, M.A., M.B.	"
Artificial Collecting Grounds for Water Supply ...	A. Ormsby, M. INST. C.E.	"
Sanitary Engineering in America ...	Colonel E. Waring, Jun., C.E.	"
Water Economy (<i>Annual Address</i>) ...	G. J. Symons, F.R.S.	July 10th, 1879.
Salutland ...	B. W. Richardson, M.D., F.R.S., <i>President of the Congress</i>	At the Congress held at Croydon, October, 1879.
The First Principles of Sanitary Work ...	Alfred Carpenter, M.D. (<i>President of Section I.</i>)	"
On certain points with reference to Drinking-Water ...	Francis S. B. François de Chaumont, M.D., F.R.S.	"
Interpretation of Water Analysis for Drinking Purposes ...	Horace Swete, M.D., C.S.S. Camb.	"
Preventable Mortality. The Mortality from Alcohol ...	Norman Kerr, M.D., F.R.S.	"
The Relation of Alcohol to Bad Sanitation ...	J. James Ridge, M.D.	"
On the Importance of thorough Ventilation in Dwellings	H. T. Strong, M.D.	"
Infant Mortality ...	F. Nichols	"
On Common Lodging-house Accommodation ...	F. Vacher	"

SUBJECT.	NAME OF AUTHOR.	DATE.
The Influence of efficient Sanitation in the Prevention of the Himalayan Plague	C. R. Francis	At the Congress held at Croydon, October, 1879.
The Unhealthiness of Public Institutions ...	Henry C. Burdett	"
Nurses : How to make them, how to use them, how to pay them	W. Ogle, F.R.C.P., M.D.	"
Some Remarks on Hereditary Influence ...	E. Wyatt-Edgell	"
On Simplicity, Common Sense, and Intelligent Supervision in Sanitary Appliances	Peter Hinckes-Bird, F.R.C.S. C.S.S. Camb.	"
On Nature's Hygiene ...	F. C. Kinzett, F.C.S.	"
Address ...	Douglas Galton, C.B., D.C.L. F.R.S. (<i>President of Section II</i>)	"
Remarks on certain points in the Work of the Engineer, which have a direct bearing on Public Health	Bailey Denton, C.E.	"
The Dangers of Bad Plumbing ...	W. Fassic, C.E.	"
On the Effects of the long-continued application of Sewage Water to the same Land	Major-Gen. H. Y. D. Scott, C.B., R.E., F.R.S.	"
The Sanitation and Draining of Towns, and Disposal of Sewage	W. Hempton Denham, soc. COLL. CHIR., S.P.M., F.R.S., F.S.S., M.S.A.	"
On Heating and Ventilating ...	C. Henderson	"
Observations upon Effective Ventilation ...	H. C. Stephens	"
Ventilation : Position of Inlets and Outlets ...	J. G. Ellison	"
On the necessity for an Improved System of Ventilating, Heating and Cooling Crowded Human Habitations or Places of Assembly ; especially in Hot Seasons or Climates	John Balbirnie, M.A., M.D.	"

SUBJECT.	NAME OF AUTHOR.	DATE.
The Necessity for a Permanent Registration of House Drains	S. Parsons-Smith, M.K.Q.C.P., L.R.C.S.I.	At the Congress held at Croydon, October, 1879.
Address	C. J. Symons, F.R.S. (<i>President of Section III.</i>)	"
Geology in relation to Sanitary Science	Alfred Haviland, M.R.C.S.	"
On the Quantitative Elements in Hydrogeology	Joseph Lucas, F.G.S.	"
Particulars of an Artesian Well at Thames Haven	W. Barnes Kinsey...	"
Rain collected from Roofs considered as a Domestic Water Supply	H. Sowerby Wallis, F.M.S.	"
On some of the apparent Influences of the Weather upon the prevalence or otherwise of certain classes of Disease	Geo. Corden	"
Conditions of the Water Supply of Croydon in relation to its Rainfall and Geology; with Suggestions for its Sanitary and Profitable Improvement	Wm. F. Stanley, F.M.S.	"
Sanitary Fallacies	W. H. Corfield, M.A., M.D. Oxon., F.R.C.P. Lond.	"
Disinfection of Excreta	William Soper, M.R.C.S.L., L.S.A.	"
The Softening and Purification of Water by the Process of the late Professor Clark; with a Notice of a System by which it is rendered more generally available	T. H. Porter	"
On the Norms of Sanitation in the School Stages of Life	Edwin Chadwick, C.B.	"
On Health at Home	B. W. Richardson, M.D., F.R.S.	"
Health and Good Food	F. de Chaumont, M.D., F.R.S.	"
Health and Good Air	Douglas Galton, C.B., D.C.L., F.R.S.	"

SUBJECT.	NAME OF AUTHOR.	DATE.
Health and Pure Water	G. J. Symons, F.R.S.	At the Congress held at Croydon, October, 1879.
Health out of Doors	J. H. Strong, M.D....	"
On the Technical Work of the Sanitary Institute of Great Britain	Lory Marsh, M.D. ...	"
The Lessons taught at the Exhibition	Alfred Carpenter, M.D.	"
On Infantile Mortality	Edwin Chadwick, C.B.	"
On Mistakes about Health	W. H. Corfield, M.A., M.D. Oxon., F.R.C.P. Lond.	"

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Twelfth Annual Report on Sanitary Condition of Merthyr Tydfil	T. J. DYKE, Esq., F.R.C.S.
On the Downward Intermittent Filtration of Sewage	"
House Drainage	G. E. PRICHETT, Esq., F.S.A.
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The Nature and Treatment of Rabies	T. C. MELLIS, Esq., C.E.
Preventive Medicine in relation to Public Health	THE AUTHOR.
Handbook of Rural Sanitary Science	LORY MARSH, M.D.
Sanitary Inspectors' Practical Guide	J. ROBINSON, CERT. SAN. INST.
The Digestion and Assimilation of Fat in the Human Body	DR. BARTLETT, PH.D., F.R.C.S.
Reports of the Committee of the British Association on the Treatment and Utilization of Sewage from 1870 to 1877	R. B. GRANTHAM.

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 Scarborough. The Chairman and Honorary Secretary.

B Y E - L A W S.

ELECTION OF FELLOWS, MEMBERS, ASSOCIATES, HONORARY
 MEMBERS, AND HONORARY FOREIGN ASSOCIATES.

1. The Institute shall consist of Fellows, Members, Associates, Annual and Life Subscribers, Honorary Members, and Honorary Foreign Associates. The government and management of the Institute shall be vested in the Council, under the control of the bye-laws, and of the Resolutions of Special General Meetings.

2. Fellows shall be elected by ballot by the Council, and shall include scientific men of eminence, persons of distinction as Legislators or Administrators and others, who have done noteworthy Sanitary work.

3. No person shall be balloted for as a Fellow unless his name has been duly proposed, seconded, and approved by a majority at a previous regular Meeting of the Council, and his name and address, together with the names of the proposer and seconder inserted in the summons convening the Meeting at which such ballot shall take place.

4. Fellows shall be elected by a majority of the Council present at the Meeting at which their names are brought forward for election, and the votes shall be taken by ballot.

5. Any Candidate for membership with the Institute shall procure a recommendation signed by three Fellows or Members, according to Form 1 in the Appendix.

6. The names of Candidates for membership, together with their addresses and the names of the Fellows or Members recommending them, shall be inserted in the summons convening the Meeting of Council at which such candidates are brought forward for election.

7. All Members (except those who have passed the examination and received the certificate of competence for Local Surveyors) shall be elected by a majority of the Council present at the Meeting at which their names are brought forward for election, and the votes shall be taken by ballot.

8. Persons who have obtained the certificate of competence for Local Surveyors are entitled to admission as Members without ballot.

9. Every Candidate for admission as an Associate of the Institute shall procure a recommendation, signed by two Fellows, Members, or Associates, according to Form 2 in the Appendix.

10. The names of Candidates, together with their addresses and the names of the persons recommending them shall be inserted in the summons convening the Meeting of Council at which such candidates are to be brought forward for election.

11. All Associates (except those who have passed the examination and received the certificate of competence for Inspectors of Nuisances) shall be elected by a majority of the Council present at the meeting at which their names are brought forward for election, and the votes shall be taken by ballot.

12. Persons who have obtained the certificate of competence for Inspectors of Nuisances are entitled to admission as Associates without ballot.

13. The Council shall have the power to elect from time to time distinguished personages as Honorary Members of the Institute, without payment of fees or subscriptions.

14. The Honorary Members elected in each year shall not exceed five in number.

15. The Council shall have power to elect from time to time as Honorary Foreign Associates, gentlemen who have promoted the advancement of Sanitary Science, without the payment of fees or subscriptions.

16. When a person shall have been elected a Fellow, Member, or Associate, the Secretary shall inform him thereof by letter, as soon as possible, in the terms of the Form 3 in the Appendix; and shall at the same time forward to him a copy of the bye-laws of the Institute, together with a copy of the Form 4 in the Appendix.

17. Every person so elected shall pay his admission fee and first annual contribution, and shall return the Form 4 duly signed, within three calendar months after the day of his election, otherwise his election shall be void; but the Council shall have the power, in particular cases, of extending the period of such payment and signature respectively.

18. Notice shall be sent by the Secretary to all Honorary Members, and Honorary Foreign Associates, on their election.

19. The names of all Fellows, Members, Associates, Honorary Members, and Honorary Foreign Associates, elected by the Council, shall be entered on the minutes of the Meeting at which they were elected, and a register of the same shall be kept by the Secretary, and also a list of the Subscribers.

20. Honorary Members and Honorary Foreign Associates shall have forwarded to them, by the Secretary, on their election, a copy of the Diploma of the Institute, signed by the President, the Chairman of Council and the Registrar, in the Form 5 in the Appendix.

21. Fellows, Life Members, and Life Associates are entitled to a Diploma, on application to the Secretary.

22. Fellows, Members, and Associates, having occasion to designate themselves as belonging to the Institute, shall state the class to which they belong as follows, viz.:—Fellow San. Inst., Mem. San. Inst., Assoc. San. Inst.

23. A Special Meeting of the Council, consisting of the Chairman

of Council and not less than ten members, shall have power to remove any Fellow, Member, or Associate from the Institute, upon receiving a requisition to that effect, with the reasons stated, signed by not less than twenty Fellows or Members of the Institute.

SUBSCRIBERS.

24. Persons of either sex may become Subscribers without election or ballot. (*See Appendix. Form 6.*)

25. The amount of the Annual Subscription shall be One Guinea.

26. Annual Subscribers shall be entitled to attend the Anniversary and Ordinary Meetings, and to take part in the same, with free admission to all Congresses, Conversazioni, and Exhibitions held by the Institute, and to make use of the Library, when formed.

27. Donors of Ten Guineas and upwards are Life Subscribers.

CONTRIBUTIONS TO THE FUNDS.

28. Each Fellow shall pay £10. 10s on taking up the Fellowship, which shall entitle him to all the privileges of the Institute for life, together with a copy of all publications issued by the Institute.

29. Every Member shall pay an Admission Fee of £3. 3s, except Medical Officers of Health and Medical Men holding certificates in Sanitary Science from any University or Medical Corporation, or persons holding the certificate for Local Surveyors granted by the Institute.

30. Each Member shall pay £2. 2s per annum, except those who have become Life Members, or who have passed the examination for Local Surveyors. Members shall be entitled to all the privileges and advantages of the Institute, together with a copy of all publications issued by the Institute, so long as they continue to pay their subscription.

31. Persons who have passed the examination for Local Surveyors may become Members for Life on payment of £5. 5s.

32. Members elected previous to the 12th December, 1878, shall only be liable to pay the same Subscription as at their election.

33. Every Associate shall pay an Admission Fee of £2. 2s, except those holding the certificate of Inspector of Nuisances granted by the Institute.

34. Each Associate shall pay £1. 1s per annum, except those who have passed the examination for Inspector of Nuisances. Associates shall be entitled to all the publications issued by the Council so long as they continue to pay their subscriptions.

35. Persons who have passed the examination for Inspectors of Nuisances may become Associates for Life on payment of £3. 3s.

36. All yearly Subscriptions shall be due in advance on the 1st of January in each year. The Subscription shall become due on election.

37. Members, Associates, and Subscribers may commute their Annual Subscription, and become Life Members, Life Associates, and Life Subscribers on payment of £10. 10s.

38. If the Annual Subscription of any Member or Associate shall be in arrear for two years, the Secretary shall give notice thereof to

the Member or Associate; and if the said Subscription shall continue in arrear at the expiration of three months after such notice, the Council (having through the Secretary given the defaulting Member or Associate due notice of their intention) shall have the power to strike the name of such Member or Associate off the Register, and he shall thereupon cease to be a Member or Associate of the Institute; but shall remain liable for any arrears of Subscription which shall be due at the date of his so ceasing to be a Member or Associate.

39. Any Member or Associate desirous of withdrawing from the Institute must give notice in writing to that effect to the Secretary; and on payment of all Subscriptions and arrears which may be due from him up to that period, he shall henceforth cease to be a Member or Associate.

40. Any person whose name shall have been struck off under the foregoing bye-law may, on payment of his arrears, be re-admitted by the Council.

41. No person who shall have ceased to belong to the Institute, either by resignation or otherwise, shall have any claim to have any part of his Entrance Fee or Subscription returned, neither shall he retain any interest in the property belonging to the Institute.

ELECTION OF COUNCIL AND OFFICERS.

42. The President, the Vice-Presidents, the Examiners, the Registrar, the Judges and the Curator of the Exhibitions, the Honorary Foreign Secretaries and the Secretary, shall be elected by the Council.

43. The Council, the Trustees, the Treasurer, and the Auditors shall be elected by the Fellows and Members at the Annual General Meeting.

44. The Council shall prepare a list of persons whom they nominate as eligible to fill the vacancies created by the retiring Members of Council and of the gentlemen they recommend as eligible to fill the offices of Trustees, Treasurer and Auditors.

45. The list so prepared shall be the balloting list, and a copy shall be sent to every Fellow and Member at least seven days before the Annual General Meeting.

46. The election shall be by ballot by the Fellows and Members, and shall take place in the following manner:—

Previous to the commencement of the ballot, the Meeting shall choose two or more Fellows or Members as Scrutineers, who shall receive the balloting lists and report the result of the ballot to the Chairman.

Every Fellow and Member intending to vote at the election may, if he think fit, erase any name or names from the balloting list, and may substitute in the place thereof the name or names of any other person or persons, in accordance with the conditions laid down in Bye-law 51, and shall hand in to the Scrutineers such balloting list as aforesaid either with or without such erasure and substitution of names.

On the receipt of such list from the voter, if the voter's qualification be not objected to, or if objected to and the Chairman shall be satisfied that the voter is duly qualified, the Scrutineers shall deposit such list in the balloting-box. The decision of the Chairman in such matter shall be final.

Any balloting list containing a greater number of names proposed for any office than the number to be elected to such office, shall be absolutely and wholly void, and shall be rejected by the Scrutineers.

If the votes in any case be equal, the Chairman shall give the casting vote.

The ballot shall commence not sooner than four o'clock P.M., and shall continue open for one hour.

THE PRESIDENT AND VICE-PRESIDENTS.

47. The President shall be elected by the Council at a Meeting specially convened for that purpose, and shall be a person distinguished for the interest he has taken in the promotion and advancement of Sanitary Science.

48. The President shall be *ex-officio* a member of the Council and of all Committees, and shall take the chair by right at all meetings of the Institute, of the Council, and of the Committees, at which he is present.

49. The Council shall have power to elect as Vice-Presidents persons distinguished for the interest they have taken in Sanitary work.

50. The Vice-Presidents shall be elected annually, and shall not exceed six in number, and shall be *ex-officio* members of the Council.

THE COUNCIL.

51. The Council shall consist of twenty-four Fellows and Members (in addition to the *ex-officio* Members). Not less than two-thirds of these twenty-four shall be Fellows.

52. The President, Vice-Presidents, Trustees, Treasurer, and Registrar shall be *ex-officio* Members of Council.

53. The Council shall have the direction and management of the concerns of the Institute, the appointment and dismissal of the paid officers and attendants, and the prescribing of their respective duties, subject to the control of the bye-laws, and of all resolutions of Meetings which have been duly summoned and held in accordance with the bye-laws, and which resolutions have been duly entered on the Minutes and confirmed.

54. Any casual vacancies occurring in the Council may be filled up by the remaining Members thereof.

55. At each Annual General Meeting one-fourth of the twenty-four elected Members of the Council shall retire, and shall not be eligible for re-election for one year. The Council shall submit to the Annual Meeting the names of the six gentlemen whom they recommend to fill up the vacancies.

50. The Secretary shall forward a printed list, with his initials attached, to each Member of Council (including *ex-officio* members) of the names of the existing *elected* Members of Council, and the number of attendances of each Member, at least seven days prior to the ordinary Monthly Meeting of the Council in March. Each Member of Council present at such Meeting shall strike off from the list the names of six Members whom he suggests for retirement, and shall deliver the same, enclosed in a blank envelope, to the Chairman, who shall announce the names of the retiring Members.

57. Upon such announcement the Members present shall proceed by ballot to choose six other Fellows or Members to be recommended to the Annual General Meeting, to take the places of the retiring Members.

58. At the first Meeting after their election the Council shall proceed to elect, by ballot, a Chairman and Vice-Chairman who shall be *ex-officio* Members of all Committees.

59. The Chairman of the Council after two years' service shall not be re-eligible to the office for at least one year.

60. All matters requiring immediate decision, and occurring between the date of one Council Meeting and another, shall be decided by the Chairman of the Council at his discretion, subject to confirmation at the next Meeting of Council.

61. The Council shall meet on the fourth Thursday in every month, except during the months of August and September.

62. Five Members of the Council shall constitute a quorum.

63. All questions shall be decided in the Council by vote unless a ballot is provided for or demanded. The Chairman shall have a second or casting vote.

64. At each Meeting of Council the Minutes of the previous Meeting shall be read, and, if approved as correct, shall be signed by the Chairman of the Meeting.

65. The Minutes of each Annual and Special General Meeting shall be read and signed in a similar manner by the Chairman presiding at the first Meeting of Council after such Annual or Special General Meeting.

66. A Special Meeting of the Council shall be summoned on the Secretary receiving a notice to do so signed by the Chairman or any five Members of Council, describing the business intended to be brought forward. Seven days' notice, at least, shall be given of any Special Meeting of Council; such notice to state particularly the business for which the Special Meeting has been summoned, and no other business to be entered upon.

67. All Committees shall be appointed by the Council.

68. No act, order, or resolution of any Committee shall bind the Institute, unless it be done or made by the direction and authority of the Council or be ratified by them.

69. A statement of the funds of the Institute and of the receipts and payments during the past year shall be made up to the 31st of December, under the direction of the Council; and after having been verified and signed by the Auditors shall be laid before the Annual General Meeting.

70. The Council shall draw up a yearly report on the state of the Institute, which shall be read at the Annual General Meeting.

71. The Council shall have power to elect as Corresponding Members of Council, Fellows and Members of the Institute who have distinguished themselves in the cause of Sanitary Science and aided in promoting the objects of the Institute.

72. The names of all Corresponding Members of Council shall be entered on the Minutes of the Meeting at which they were elected, and shall be printed in the Calendar.

73. As early as possible in each year the Council shall cause to be published a Calendar of the Institute for the year, a copy of which, together with all other Reports of proceedings and catalogue of Exhibitions, shall be supplied free of charge to all Fellows, Members, Associates, and Subscribers.

74. The Council shall arrange for the publication of the papers read at the Meetings, or of such documents as may be calculated to advance Sanitary knowledge; and they shall have power to make such arrangements for carrying into effect the bye-laws, and for the general management of affairs, as in their opinion may from time to time be necessary.

THE MEETINGS.

75. The Meetings of the Institute shall be as follows:—

1st. The Annual General Meeting of Fellows and Members only.

2nd. Special General Meetings of Fellows and Members only, for the purpose of making, altering, and establishing Bye-laws and Regulations, or for any other special business for which such Meeting may be convened.

3rd. The Anniversary Meeting.

4th. Ordinary Meetings.

76. The Annual General Meeting shall be held in May in each year, at 4 o'clock in the Afternoon, to receive and deliberate upon the Report of the Council on the state of the Institute, with the annual statement of the Accounts, and to elect the Council and Officers for the ensuing year.

77. No question shall be discussed, or motion be made, at the Annual General Meeting, the Anniversary Meeting, or Ordinary Meetings, relative to the direction and management of the concerns of the Institute; such direction and management being vested in the Council, under the control of the bye-laws, and of the Resolutions of Special General Meetings.

78. The Council may at any time call a Special General Meeting of Fellows and Members for a specific purpose relative to the direction and management of the concerns of the Institute; and the Council shall at all times call such Meeting within fourteen days on a requisition in writing, signed by twenty, being either Fellows or Members, specifying the nature of the business to be transacted.

79. A notice shall be sent to those Fellows and Members who reside in the United Kingdom, at least seven days before the time

appointed by the Council for such Special General Meeting; and the notice shall specify the nature of the business to be transacted and no other business shall be transacted at that meeting. All Fellows and Members shall have a right, subject to the provision of Bye-law No. 85, to attend and vote, and twenty shall constitute a quorum.

80. The Fellows and Members of the Institute may from time to time, by resolution of a Special General Meeting confirmed at a subsequent Special General Meeting held not less than seven and not more than fourteen days after the former Meeting, make, alter, or repeal such bye-laws as they may think fit.

81. At all General Meetings the Chair shall be taken by the President, or, in his absence, by one of the Vice-Presidents, or by the Chairman of the Council, or by some Member to be chosen by the Meeting.

82. The Chairman shall have a second or casting vote at all General Meetings; and in all matters in dispute his decision shall be final.

83. Motions made at any General Meeting of the Institute shall be in writing, and signed by the Mover and Seconder.

84. All Fellows and Members are entitled to take part in the Annual General Meeting, subject to the provisions contained in these bye-laws, and ten shall form a quorum.

85. No Fellow or Member, whose Fees or Subscriptions are in arrear, shall be entitled to be present, to debate, or to vote at any General Meeting.

86. The Anniversary Meeting shall be held on the second Thursday in July in each year, to commemorate the formation of the Institute, when an address shall be delivered, to be called the "Annual Address."

87. The presentation of the Medals and Certificates of Merit awarded to successful Exhibitors shall be made at the Anniversary Meeting.

88. No business shall be transacted at the Anniversary Meeting except the delivery of the Address and the discussion arising thereupon.

89. All Fellows, Members, Associates, Honorary Members, Honorary Foreign Associates, and Annual and Life-Subscribers, shall be entitled to attend and to take part in the proceedings at the Anniversary Meeting, and at the Ordinary Meetings.

90. Every Fellow or Member shall have the privilege of introducing one stranger, to be present at the Anniversary Meeting, or at the Ordinary Meetings of the Institute, on writing his name in a book provided for that purpose, or sending with him a card signed with his name, according to a form provided.

91. The Council shall arrange, at their first Meeting in October a programme of the Ordinary Meetings to be held during the Session for the reading and discussion of papers, and the delivery of Lectures and Addresses.

92. A copy of such programme shall be supplied to every Fellow, Member, Associate, and Subscriber.

93. The Council shall appoint a Committee of Referees, to whom all papers shall be referred before being read.

94. The business of the Ordinary Meetings of the Institute shall be conducted as nearly as possible in the following order:—

1. The Minutes of the preceding Meeting to be read, and after having been approved as correct, to be signed by the Chairman.
2. Communications from the Council to be brought forward.
3. A List of the names of those persons who have joined the Institute since the previous Ordinary Meeting to be read.
4. Original Communications to be read and discussed.

THE EXAMINERS AND EXAMINATIONS.

95. A Board of Examiners shall be appointed once a year by the Council to carry out the Examinations for Local Surveyors and Inspectors of Nuisances, and a Certificate shall be granted to successful Candidates, signed by the Examiners, according to Form 7 in the Appendix.

96. The times and places for holding the Examinations shall be determined by the Council.

97. The names of the Examiners, the syllabus of subjects for Examination, and the printed questions set at each Examination during the year, together with the list of successful candidates, and full particulars relating to the Examinations, shall be published in the Annual Calendar of the Institute, under the authority of the Council.

98. The fees charged for the Examination and Certificate shall be as follows:—For Local Surveyors, Five Guineas; for Inspectors of Nuisances, Two Guineas. Unsuccessful Candidates are entitled to present themselves a second time for one fee.

THE REGISTRAR.

99. The Registrar shall sign all certificates and diplomas, and shall keep the Register of persons certificated by the Institute. In concert with the Board of Examiners he shall prepare an Annual Report of the Examinations to be presented to the Council.

THE TREASURER AND AUDITORS.

100. The Treasurer shall receive all money due to the Institute and shall pay it into a bank in London appointed by the Council.

101. All moneys, except investments, shall be kept at such bank in the name of the Institute.

102. The Treasurer shall make all payments ordered by the Council, by cheque signed by himself and countersigned by the Secretary.

103. He shall cause an account to be kept of all receipts and payments.

104. No cheque shall be drawn without a previous vote of the Council, except such sums as may be required for petty cash.

105. All receipts for Fees and Subscriptions paid to the Institute shall be signed by the Treasurer or the Secretary.

106. The accounts shall be audited once a year by the Auditors elected by the Annual General Meeting.

107. The Auditors shall have access at all reasonable times to all books and accounts of the Institute, and shall sign the Annual Statement of Accounts before it is submitted to the Council.

THE SECRETARIES.

108. The Council shall have power to appoint any gentlemen at their discretion as Honorary Foreign Secretaries.

109. The Secretary shall be appointed by the Council, and shall receive such remuneration and be subject to such notice as the Council may from time to time think fit.

110. He shall give security to the satisfaction of the Council, and he shall not be engaged in any other business or profession whatever.

111. The Secretary shall, under the direction of the Council, conduct the correspondence of the Institute, attend all Meetings of the Institute, of the Council (and of the Committees when required); take Minutes of the proceedings of such Meetings, and read the Minutes of the preceding Meetings.

112. He shall issue all notices of Meetings, and shall prepare, under the direction of the Council, an Annual Report of the state of the Institute. He shall have the superintendence of all persons employed and paid by the Council under him, and shall conduct the ordinary general business of the Institute.

113. The Secretary shall attend to the collection of the Subscriptions; he shall prepare the statement of the expenditure of the funds, and present all accounts to the Council for inspection and approval.

114. The Secretary shall prepare lists when required of those Members whose Subscriptions are in arrear and report the same to the Treasurer.

115. He shall, under the direction of the Treasurer, keep the accounts of the Institute.

116. The Secretary shall attend all Meetings of the Board of Examiners, shall take the Minutes of such Meetings and read the Minutes of preceding Meetings. He shall issue all notices relating to Examinations.

THE LIBRARY.

117. With a view to the formation of a Library and Collection, all Fellows, Members and Associates are expected, within twelve months after their election, to deliver to the Council an original paper on some subject connected with Sanitary Science, or to make a donation to the Library or Collection.

118. The Library shall be under the direct control and government of the Council.

119. A Catalogue shall be prepared and kept of all books belonging to the Library.

120. The name of the donor shall be entered in every book presented to the Institute.

THE EXHIBITIONS.

121. Previous to the holding of any Exhibition by the Institute, the Council shall issue a prospectus containing the Rules, Regulations, and Conditions, with full particulars relating to such Exhibition.

122. A Catalogue of each Exhibition shall be published under the direction of the Council.

123. The Judges shall make their Report exclusively to the Council by whom the Medals and Certificates of Merit shall be awarded, and such Medals and Certificates shall be presented at the Anniversary Meeting. (See Appendix. Form 8.)

THE CONGRESSES.

124. The Council shall hold Congresses at such times and places as they may deem most convenient, at which addresses shall be delivered and papers read and discussed, upon subjects of general interest relating to Sanitary Science.

125. The Council shall issue a prospectus previous to the holding of each Congress, setting forth the particulars relating to such Congress.

126. At each Congress the Council shall issue "Congress Tickets," entitling the holder to admission to all the Meetings held in connection with the Congress. The price of the "Congress Tickets" shall be Half-a-Guinea each.

THE PROPERTY OF THE INSTITUTE.

127. The property and effects of the Institute of what kind soever shall be vested in three Trustees for the use of the Institute, and in furtherance of the objects for which it has been established.

128. Under no pretence whatever shall the property and effects, or the income or revenue of the Institute derived from the voluntary contributions or otherwise howsoever, be applied in making any dividend, gift, division or bonus unto or between any one belonging to the Institute, excepting in the case of the fees received on account of the Examinations.

129. Every paper and contribution presented to the Institute shall be considered the property thereof, unless there shall have been some previous arrangement to the contrary, and the Council may publish the same in any way and at any time they may think proper to do so.

130. Should the Council refuse or delay the publication of any paper beyond a reasonable time, the author thereof shall have a right to copy the same, and to publish it as he may think fit, having previously given notice in writing to the Secretary of his intention to do so. No person shall publish or give his consent for the publication of any communication presented and belonging to the Institute without the previous consent of the Council.

DONATIONS AND BEQUESTS.

131. The names of all persons who have presented any additions to the Library or to the Collection of Plans, Models, etc., or who have made any voluntary contribution to the funds of the Institute, shall be recorded and published as benefactors to the Institute.

132. Every person desirous of bequeathing to the Institute any Manuscripts, Books, Maps, Plans, Drawings, Instruments, or other personal property, is requested to make use of the following form in his will:—

Form of Bequest.

"I give and bequeath to the SANITARY INSTITUTE OF GREAT BRITAIN in London [*here enumerate and particularize the effects or property to be bequeathed*]. And I hereby declare that the receipt of the Treasurer of the said Institute for the time being shall be an effectual discharge to my executors for the said legacy or bequest."

APPENDIX.

FORM 1.

SANITARY INSTITUTE OF GREAT BRITAIN.

FORM OF APPLICATION FOR ADMISSION OF MEMBERS.

(*This Form must be signed by at least Three Fellows or Members of the Institute.*)

Name _____

Place of Residence _____

Title, Profession, or Occupation _____

being desirous of becoming a Member of the SANITARY INSTITUTE OF GREAT BRITAIN, we, the undersigned, do recommend him as in every respect a proper person to be elected a Member of the Institute.

Dated this _____ day of _____ 18 .

This application was read on the _____
and balloted for on the _____

FORM 2.

SANITARY INSTITUTE OF GREAT BRITAIN.

FORM OF APPLICATION FOR ADMISSION OF ASSOCIATES.

(*This Form must be signed by at least Two Fellows, Members, or Associates of the Institute.*)

Name _____

Place of Residence _____

Title, Profession, or Occupation _____

being desirous of becoming an Associate of the SANITARY INSTITUTE OF GREAT BRITAIN, we, the undersigned, do recommend him as a proper person to be elected an Associate of the Institute.

Dated this _____ day of _____ 18 .

This application was read on the _____
and balloted for on the _____

FORM 3.

SANITARY INSTITUTE OF GREAT BRITAIN.

18 .

SIR,

I have the honour to inform you that you have this day been elected a _____ of the SANITARY INSTITUTE OF GREAT BRITAIN. I forward you herewith a copy of the Bye-laws of the Institute, together with a form which you are requested to sign and return to me with the admission fee and annual subscription, amounting to _____, within three months of the date of your election.

I am, Sir, &c.,

Secretary.

FORM 4.

I, the undersigned, having been elected a _____ of the SANITARY INSTITUTE OF GREAT BRITAIN, do hereby promise that I will be governed by the Bye-laws and Regulations of the said Institute, as they are now formed, or as they may hereafter be altered or amended; that I will advance the objects of the said Institute as far as shall be in my power; and that I will attend the Meetings thereof as often as I conveniently can. Provided, however, that whenever I shall signify in writing to the Secretary that I am desirous to withdraw my name therefrom, I shall (after the payment of any arrears which may be due by me at that period, and after giving up any Books, Papers, or other property belonging to the Institute, in my possession or entrusted to me), be free from this obligation.

Witness my hand this _____ day of _____ 18 .

FORM 5.

Diploma.

This is to Certify
That at a Meeting of the Council of
THE SANITARY INSTITUTE OF GREAT BRITAIN duly convened

_____ was enrolled as _____

And this our Diploma was duly conferred upon him.

Witness our hands this _____ day of _____ 18 .

*President.*_____
*Chairman of Council.*_____
Registrar.

FORM 6.

SANITARY INSTITUTE OF GREAT BRITAIN.

FORM OF APPLICATION FOR ENROLMENT OF SUBSCRIBERS.
To the Council

I desire to be enrolled* _____

_____ of the SANITARY INSTITUTE OF GREAT BRITAIN.

Name _____

Title, Profession, or Occupation _____

Address _____

Date _____

* State here whether as Life Subscriber or Annual Subscriber.

Donors of Ten Guineas, or upwards, are Life Subscribers. Subscribers of One Guinea are Annual Subscribers.

FORM 7.

Certificate

of

THE SANITARY INSTITUTE OF GREAT BRITAIN

_____ having been examined by
the Officers of the Board appointed for that purpose and in their
opinion having been found competent, as regards his Sanitary
knowledge, to discharge the duties of

The Council of the SANITARY INSTITUTE of GREAT BRITAIN, at a
Meeting duly convened, ordered this certificate to be granted.

Witness our hands this _____ day of _____ 18 ____.

_____ } *Examiners.*

_____ *Registrar.*

FORM 8.

Certificate of Merit

Awarded by the Council of THE SANITARY INSTITUTE OF GREAT
BRITAIN.

To

For

Exhibited at the Exhibition of the Institute, held at

By Order.

_____ *Secretary.*

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G. NORMAN AND SON, PRINTERS, 29, MAIDEN LANE, COVENT GARDEN, LONDON.

Abstract of Cash Receipts and Payments for the year ending 31st December, 1879.

QUILTER, BALL, CROSBIE, GLEGG & WELTON, Public Accountants,
5, Moorgate Street, E.C.

20th May, 1880.

