

ANNUAL REPORT OF THE COUNCIL

FOR THE YEAR 1897.

Read at the Ordinary General Meeting, March 23rd, 1898.

INTRODUCTION.

IN presenting this Twenty-second Annual Report, the Council think that a record of work accomplished by the Institute during the year will be sufficient to show not only the growth of the Institute, but will also indicate the general progress which is taking place in the diffusion of Sanitary knowledge.

On the occasion of the Queen's Diamond Jubilee, a loyal and dutiful address was presented by the Council of the Institute, and was graciously acknowledged on behalf of Her Majesty. The wording of the address is given in Part II. of the Journal for the year.

SESSIONAL MEETINGS.

Sessional Meetings for the discussion of subjects of interest to Sanitarians were held in February, March, April, and December. These meetings afford an opportunity for an interchange of opinions amongst the Members and Associates of the Institute, and the Council will be glad to receive from time to time notice of any subjects which are thought desirable for discussion. During the year the following subjects were brought forward:—

“The Sanitary Supervision of Shelters for the Homeless.” F. J.

WALDO, M.A., M.D., D.P.H., Barrister-at-Law.

“Indian Sanitation.” BALDWIN LATHAM, M.INST.C.E.

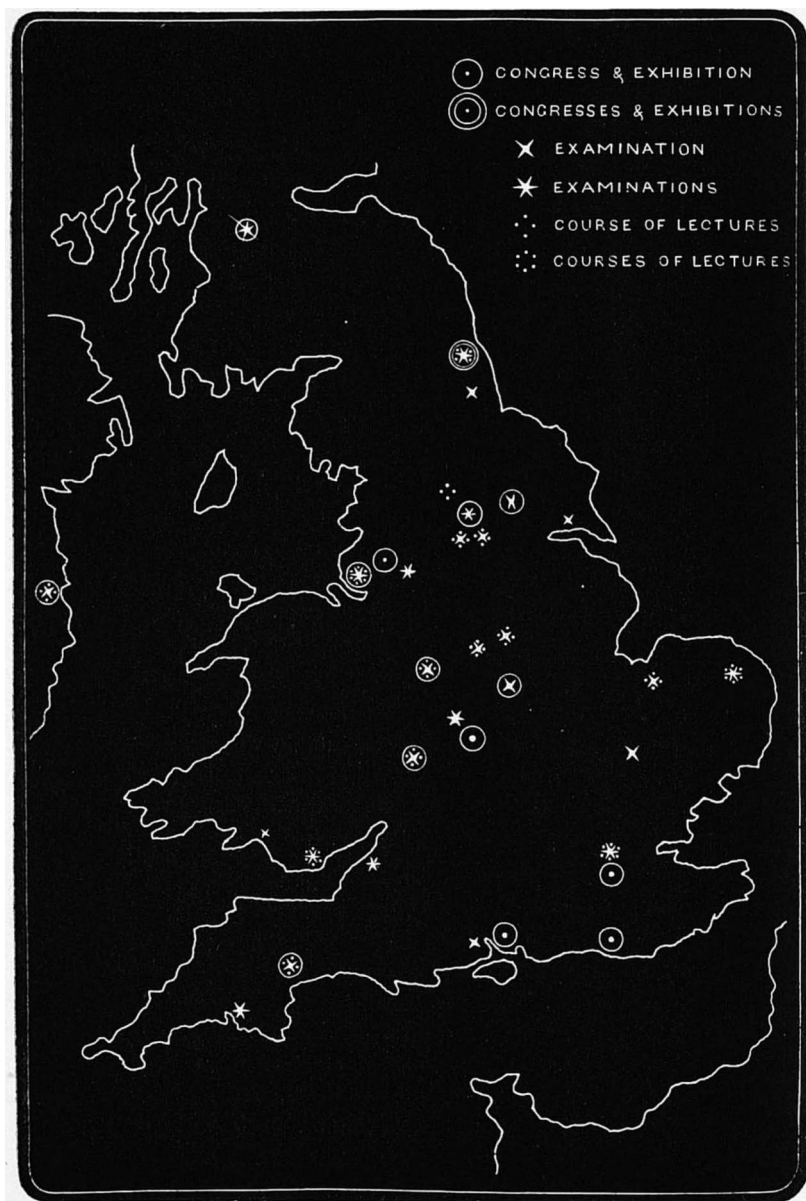
“The Notification of Measles.” HENRY KENWOOD, M.B., D.P.H., F.G.S.

“The Pollution of Water Supplies by Encampments of Hop-pickers, Casual Workers, Tramps,” &c. Prof. W. H. CORFIELD, M.A. M.D.(OXON), F.R.C.P., in reference to the Dangers of Pollution of Municipal Water Supplies; Miss M. A. CHREIMAN, in reference to the Sanitary Control of Hop-pickers, &c.

The papers read during the earlier part of the year, with the discussions upon them, have already appeared in the Journal, Vol. XVIII. The papers by Prof. W. H. Corfield and Miss Chreiman will be published in Part I. of the Journal for 1898.

The attendances at the meetings varied from 60 to 150.

Map showing the various centres to which the work of The Sanitary Institute has been extended.



Congresses, 16. Examinations, 146. Courses of Lectures, 41.

LECTURES AND DEMONSTRATIONS ON SANITARY SCIENCE.

The twenty-third and twenty-fourth courses of Lectures and Demonstrations were held during the year in London. In February and March 64 Students entered their names, and in October and November 52 Students.

A complete list of the Lectures has been given in Vol. XVIII. of the Journal.

Technical Exhibitions are awarded by the Technical Education Board of the London County Council to the annual value of £5. which may with the approval of the Board, be applied to paying the expenses of students in attending these lectures.

INSPECTIONS AND DEMONSTRATIONS.

To make the course of training given by the Institute as practical as possible, arrangements were made for the Students to visit the places mentioned below in order that they might have the opportunity of observing and noting the difficulties that have to be met in the practical application of Sanitary principles to various trade processes. The names of the gentlemen who arranged the visits and conducted the students are also given:—

Artizans' Dwellings in the Boundary Street Area. By kind permission of T. BLASHILL, F.R.I.B.A. Conducted by OWEN FLEMING, A.R.I.B.A., Architect's Department, London County Council.

East London Water Works, Lea Bridge. By kind permission of W. B. BRYAN, M.INST.C.E., Engineer to the Company, who conducted the Students.

Friern Barnet Sewage Works. By kind permission of E. J. REYNOLDS, ASSOC.M.INST.C.E., Surveyor to the District Council, who conducted the Students.

Barking Sewage Outfall Works. By kind permission of J. E. WORTH, M.INST.C.E., District Engineer, London County Council, who conducted the Students.

Southwark and Vauxhall Water Works, Hampton. By kind permission of J. W. RESTLER, M.INST.C.E., Engineer to the Company.

Demonstration in Book-keeping, as carried out in a Sanitary Inspectors' Office in the Parkes Museum. ALBERT TAYLOR, Chief Sanitary Inspector of St. George's, Hanover Square.

- Electric Light and Refuse Destructor Works, Shoreditch. By kind permission of E. NEWTON RUSSELL, ASSOC.M.INST.C.E., who conducted the Students.
- St. Marylebone Stoneyard. C. J. KILGALLIN, who conducted the Students.
- West London Paper Mill Co.'s Works. By kind permission of the Company.
- Aylesbury Dairy Co. By kind permission of J. A. HATTERSLEY, Managing Director (2 inspections).
- Ealing Sewage and Destructor Works. By kind permission of CHAS. JONES, M.INST.C.E., Engineer and Surveyor to the District Council (2 inspections), who conducted the Students.
- Beddington Sewage Irrigation Farm, Croydon. By kind permission of THOS. WALKER, M.INST.C.E., Borough Engineer, who conducted the Students.
- Express Dairy Company's Farm, College Farm, Finchley. By kind permission of G. TITUS BARRHAM, Managing Director, who conducted the Students.
- Wimbledon Sewage Works and Farm. By kind permission of C. H. COOPER, ASSOC.M.INST.C.E., Engineer and Surveyor to the District Council, who conducted the Students.
- Knacker's Yard. By kind permission of HARRISON & BARBER (2 inspections).
- Metropolitan Cattle Market. By kind permission of the Corporation of the City of London. W. A. BOND, M.A., M.D., D.P.H., Medical Officer of Health, Holborn.
- Disinfecting and Filtering Appliances. By kind permission of, at J. Defries & Son's premises, Houndsditch, E. (2 inspections).
- Disinfecting Station, Chelsea. By kind permission of LOUIS PARKES, M.D., D.P.H.LOND., Medical Officer of Health, Chelsea Vestry (2 inspections), who conducted the Students.
- St. George's, Hanover Square, Sanitary Works in different stages of progress, Disinfecting Station, Mortuary, &c., Model Dwellings (Gatliff Buildings), and Routine Office Work of a Sanitary Inspector. By kind permission of the Vestry. Conducted by A. TAYLOR, Chief Sanitary Inspector (4 inspections).
- London County Council's Common Lodging House, Parker Street, Drury Lane, by kind permission of the L.C.C. Conducted by FRANK J. RUDDLE, Estates and Valuation Dept., L.C.C. (3 inspections).

Richmond Main Sewerage Works. By kind permission of W. FAIRLEY, ASSOC.M.INST.C.E., Engineer, who conducted the Students.

Disinfecting Apparatus and Model Steam Laundry. By kind permission of W. G. LACY (2 inspections), who conducted the Students.

Demonstration of Diseased Meat in the Parkes Museum. W. A. BOND, M.A., M.D., D.P.H., Medical Officer of Health, Holborn.

During the period over which each course of Lectures extended the Students had the free use of the Library and Museum at all times when they were open, and special times were set apart during each week for the Students to examine the Museum with the assistance of the Curator.

The demonstrations of diseases affecting meat appear to be much appreciated by the students, and a cold storage chamber has been fitted up for the purpose of preserving specimens.

The Council desire to record their sincere thanks to the Lecturers for the great benefits they have conferred upon the Students, and for the assistance they have given to the diffusion of Sanitary knowledge by the preparation and delivery of these Lectures, and also to those gentlemen who took so much trouble to make the various inspection and demonstration visits instructive to the Students.

EXAMINATIONS.

IN PRACTICAL SANITARY SCIENCE.

Examinations were held at the following places: London (2 Examinations), Birmingham, Bristol, Glasgow, Manchester, Newcastle-upon-Tyne, Norwich, Swansea, York. 58 Candidates presented themselves, to 26 of whom Certificates were granted.

FOR SANITARY INSPECTORS.

Examinations were held at the following places:—

Birmingham.	Manchester.
Bristol.	Newcastle-upon-Tyne.
Cardiff.	Norwich.
Glasgow.	Swansea.
London (2 Examinations).	York.

At these Examinations 505 Candidates presented themselves, and 255 were certified competent, as regards their Sanitary knowledge, to discharge the duties of an Inspector of Nuisances under the Public Health Act, 1875, or of a Sanitary Inspector under the Public Health (London) Act.

The Examinations were established in 1877, and the following figures show the total number of Examinations held, and the number of candidates :—

	Examinations.	Candidates Entered.	Candidates Certificated.
For Local Surveyors	35	291	142
Practical Sanitary Science	15	159	83
Sanitary Inspectors	96	4,333	2,493
	<hr/> 146 <hr/>	<hr/> 4,783 <hr/>	<hr/> 2,718 <hr/>

A Table and Diagram relating to these Examinations is given on the opposite page.

A scheme before the Local Government Board for the formation of a Sanitary Inspectors' Examination Board, composed of representatives from various Societies, is still under consideration.

CONGRESS AND EXHIBITION.

The Sixteenth Congress and Exhibition of the Institute was held at Leeds, from September 14th to 18th, by invitation of the Right Hon. The Lord Mayor and Corporation.

Very suitable accommodation was provided for the meetings of the Congress in the Town Hall, Yorkshire College, Municipal Buildings, School Board Offices, Methodist New Connexion Hall, and the Albert Hall.

Delegates were appointed by 330 Sanitary Authorities, and by 76 Societies and Associations.

Seventeen meetings were held during the Congress, and at these 70 addresses and papers were read, and fully discussed.

Most of the papers and discussions are published in the Journal of the Institute.

A Conference of Municipal Representatives was added to the Congress for the first time at Leeds and proved satisfactory for discussing questions relating to Municipal Sanitation which are of interest to the delegates from the Sanitary Authorities attending the Congress.

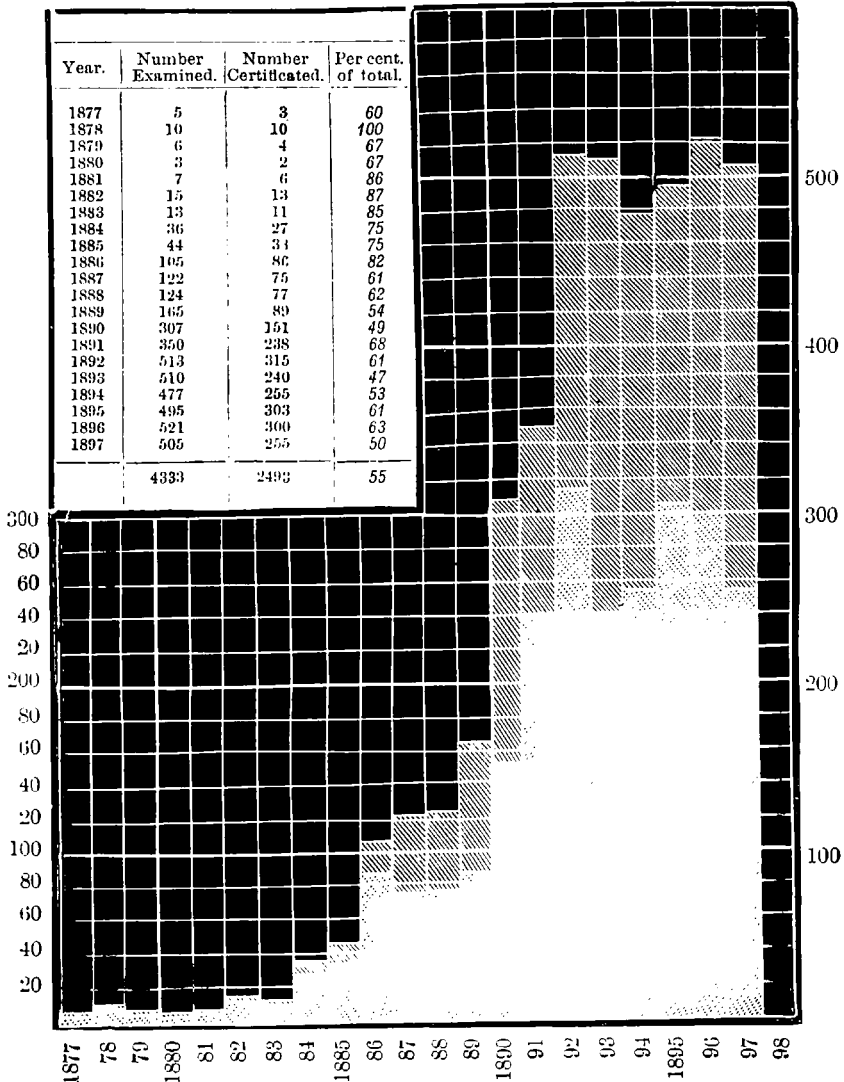
A resolution was passed recommending the Council to include this Conference in future Congresses. The Council decided to adopt the recommendation, and to arrange for the Conferences in future.

The numbers attending the Congress were as follows :—Members of Council, 22 ; other Members and Associates of the Institute, about 300 ; Associates of the Congress, 292 ; Delegates, 767 ; making a total attendance of over 1,380.

The Health Exhibition was held in the Smithfield Club Buildings

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

Year.	Number Examined.	Number Certified.	Per cent. of total.
1877	5	3	60
1878	10	10	100
1879	6	4	67
1880	3	2	67
1881	7	6	86
1882	15	13	87
1883	13	11	85
1884	36	27	75
1885	44	34	75
1886	105	80	82
1887	122	75	61
1888	124	77	62
1889	165	89	54
1890	307	151	49
1891	350	238	68
1892	513	315	61
1893	510	240	47
1894	477	255	53
1895	495	303	61
1896	521	300	58
1897	505	255	50
	4333	2493	55



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

and was open twenty-three days. It was attended by 75,790 visitors. A list of the Exhibits, to which medals were awarded, is given in Part III. of the Journal for 1897, and also a list of certain Exhibits which required special tests in London or elsewhere before their merits could be decided upon by the Judges.

An interesting feature in the Exhibition was the Demonstrations of the Rontgen *x* Rays and the Cinemetograph. Among other Demonstrations and Competitions were Cookery, Physical Drill, Laundry Work, Dressmaking, and Modelling, in the arrangement for which the Institute was materially assisted by the co-operation of the Yorkshire Ladies' Council of Education, and the School Board Drill Instructor and Teachers.

Those who assisted have since received Letters of Thanks from the Exhibition Committee :—

Adams & Co., Park Lane Works, Leeds, for Gentlemen's Lavatory.

Doulton & Co., Lambeth, S.E., for Ladies' Lavatory.

Ingham & Son, for Loan of Drain Pipes.

F. Reynolds, for Fitting up Model Hospital.

Blind Institution, Leeds, for Exhibits of Baskets and Brushes.

G. W. Branson, for Lantern and Cinemetograph Displays.

British Institute of Preventive Medicine, 74, Great Russell Street, London, S.W., for Cultivations of Bacteria.

Claughton Bros., Bramley, Leeds, for Exhibits of Ornamental Lead Work.

Dr. W. L. Hunter, for Specimens of old Traps.

Noble Brown & Co., for Loan of Fire Appliances.

Reynolds & Branson, 14, Commercial Street, Leeds, for Exhibits of Models, Diagrams, Lantern Slides and Apparatus in relation to Physiology.

Shanks & Co., Tubal Works, Barrhead, N.B., for Specimens of Old Defective Work.

Miss Clare, for Assistance in Laundry Demonstrations.

Miss McCulloch, Superintendent of Cookery, Leeds School Board, for Assistance in Cookery Demonstrations.

Miss Peacock, Head Teacher of the Cookery School, for Assistance in Cookery Demonstrations.

Miss Watson, for Assistance in Judging at Cookery Competitions.
Head Teachers of Schools, whose Scholars took part in the Physical Drills.

A Table relating to these Exhibitions is given on the following page.

An illustrated list of the Exhibits to which awards have been given by the Institute at their various Exhibitions is published.

EXHIBITIONS HELD IN CONNECTION WITH THE CONGRESSES OF THE INSTITUTE.

	1877. Leamington.	1878. Stafford.	1879. Croydon.	1880. Exeter.	1882. Newcastle.	1883. Glasgow.	1884. Dublin.	1885. Leicester.	1886. York.	1887. Bolton.	1889. Worcester.	1890. Brighton.	1892. Portsmouth.	1894. Liverpool.	1896. Newcastle.	1897. Leeds.	1898. Birmingham.
Exhibitors ...	117	116	189	106	110	126	134	135	130	112	108	108	156	146	100	115	
Exhibits ...	294	319	710	500	600	750	900	1,000	900	800	800	1,000	2,000	—	—	—	
Space occupied (in sq. ft.) ...	—	—	—	9,725	14,520	20,000	40,000	30,000	30,000	25,000	28,000	30,000	35,000	25,000	17,310	42,000	
Days Exhibition was open ...	14	16	17	19	25	25	19	17	26	29	23	18	and Grnds	24	22	23	
Total Visitors	—	—	—	8,955	8,373	20,000	35,000	37,000	30,000	27,000	29,000	35,000	49,000	48,189	51,000	75,790	
Medals awarded ...	13	13	12	12	15	21	18	34	16	14	30	32	21	29	61	55*	
Special Certificates ...	None.	6	9	7	4	13	11	11	12	9	None.	None.	None.	None.	None.	None.	
Certificates ...	None.	22	38	40	72	58	83	79	64	40	71	88	76	56	None.	None.	
Exhibits deferred for further trial	—	7	52	30	37	44	39	119	42	46	67	67	38	59	44	26	

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

SANITARY LEGISLATION.

Very few Bills of a sanitary nature were introduced during the year.

The Parliamentary Committee of the Institute had before them and reported to the Council upon the following Bills. The action taken by the Council and the fate of the Bill is noted in each case:—

Plumbers' Registration Bill. Brought in by Mr. Knowles, Earl Compton, Mr. Dixon, and Dr. Farquharson.

This Bill, which was first introduced in 1892, was again brought forward. The Council petitioned against the Bill, and suggested amendments in Committee for the second reading: but the debate on the third reading was not concluded before the close of the session.

Rivers Pollution Prevention Bill. Brought in by Sir Francis Powell, Mr. Wyvill, Mr. Henry Hobhouse, Sir John Dorington, Sir Henry Howarth, Dr. Farquharson, Sir John Brunner, Mr. Kenrick, and Mr. Brigg.

A Bill to make more effectual Provision for prevention of the Pollution of Rivers and Streams. The Council petitioned in favour of this Bill, but suggested that the clause relating to solid matter in suspension should be so amended as to include this as a pollution. The second reading was not reached before the close of the session.

The following Bills were also considered, but the Committee reported to the Council that they did not contain provisions that made it desirable for the Institute to take any action in Parliament with regard to them:—

London County Council General Powers Bill.

Sale of Food and Drugs Bill.

Verminous Persons' Bill. This Bill was passed as *The Cleansing of Persons' Act*, the title having been amended in the House of Lords.

Local Authorities' Officers' Superannuation Bill.

PARKES MUSEUM.

The Lectures and Public Meetings held in the Museum have been well attended, and the daily visitors, who are admitted free, have been quite up to the average.

It is estimated that over 17,500 persons visited the Museum during the year.

Among the Institutions and Societies from which Classes attended during the year were the following :—

Aldersgate Street Polytechnic.	King's College.
Architectural Association.	London Hospital Nurses.
Bedford College.	London Northern Polytechnic.
Battersea Polytechnic.	S. B. L. Housewifery Soc.
Borough Polytechnic.	Maria Grey College.
Bartholomew's Hospital.	Military School of Engineering, Chatham.
Board School, Hampstead.	National Health Society.
Board School, Lambeth Road.	New Cross Institute.
Board School, Battersea.	North-East London Institute.
Charterhouse, P. T. Centre.	Polytechnic, Regent Street.
Croydon Polytechnic.	Post Graduates Course.
Charterhouse School of Science.	Physical Training College.
City of London College.	Surrey Square Board School.
Charing Cross Hospital.	South Norwood Polytechnic.
Chelsea and Pimlico Nurses.	Southlands Training College.
College of Preceptors.	St. Aloysius Convent.
Dame Owen's School.	Stoke Newington Science Centre.
Exeter Hall.	Stepney P. T. Centre.
Finsbury Square Y.M.C.A.	St. Thomas's Hospital Med. School.
Guy's Hospital.	St. Saviour's School, Herne Hill.
Girls' High School, Dulwich.	St. John Ambulance Brigade.
Glengall Rd. School, Cubitt Town.	Thornton Heath Polytechnic.
Green Coat School, Camberwell.	University College, London.
Hackney P. T. Centre.	Victoria Street Board School.
Joint Examination Board, R.C.P. and S.	Westbourne Park Institute.
Kindergarten Training College, Stockwell.	Wimbledon Technical Institute.
	Working Women's College.

Table showing the number of Classes and Students visiting the Museum.

Date.	Institutions from which Classes attended.		Classes.		Students.
1892	..	13	..	68	854
1893	..	21	..	87	1043
1894	..	28	..	48	865
1895	..	50	..	93	1695
1896	..	49	..	82	1435
1897	..	53	..	138	1674

This Table shows an increasing use of the Museum for this purpose.

The Museum is recognised by the Science and Art Department in connection with their Classes, and the Class Visits paid by Students to the Museum may be counted as a Class attendance for the purpose of the Examination Grant.

Lantern Slides numbering 635 were lent on hire to members, and doubtless, as it becomes more known that these valuable helps for lecture purposes are available, the number of applications for them will increase.

LIBRARY.

Volumes and Pamphlets numbering 408 have been presented to the Library. Lists of these are published in Vol. XVIII. of the Journal.

About 300 references were made to the shelves by readers during the year.

For the convenience of Members, Associates, and Students who wish to borrow books for home reading, special arrangements have been made for the loan to them, at a small fee, of books from Lewis's Medical and Scientific Library, which contains a large number of recent text books and standard Sanitary works.

JOURNAL.

The Journal for the year contains the papers read in the Conferences at the Congress at Newcastle, and the Presidents' addresses, and papers read in the Sections at the Congress at Leeds. At the Leeds meeting the subject of Sewage disposal occupied a prominent place, and so much interest was expressed in the discussion that the Council decided to publish the several papers relating to the question in a separate volume. This was issued in November. The papers are also included in the Journal.

FINANCE.

The statement of accounts shows a steady increase in the receipts from subscriptions, and there is of course a certain increase in the working expenses corresponding with the growth of the Institute. It is satisfactory to note that the net cost of the Journal is less than last year, although a larger number of copies have been issued. The substantial balance of receipts over expenses in connection with the Exhibition, goes towards meeting the establishment charges of the Institute.

It should be remembered that no fees are paid for the professional services of either the Judges or the Examiners, and it is due to their self-denying labours on behalf of the Institute that the net result of the year's working leaves a balance of £859 to be carried to capital. The Council have increased the investments of the Institute by

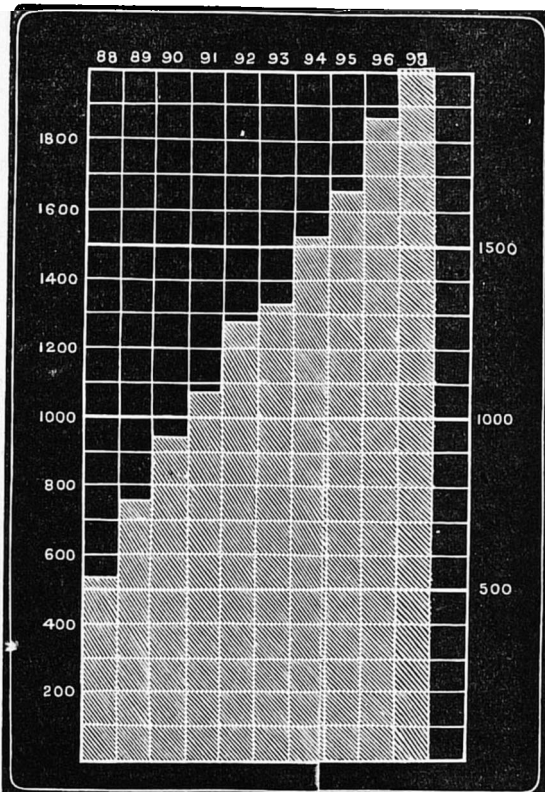
the purchase during the year of £1,000 India 3 per cent. Stock, and the total amount of assets, after deducting all outstanding liabilities, is £10,415.

EPITOME OF REGISTERS OF MEMBERS AND ASSOCIATES.

The comparison of the roll of the Institute with the preceding year shows a steady increase in the number of Members and Associates.

	Hon. Fellows.	Fellows.	Members.	Associates.	Total
Dec. 31st, 1896	28	153	621	1064	1866
Dec. 31st, 1897	28	150	708	1142	2028

Diagram showing the Yearly Increase in the Roll of the Institute.



EPITOME OF THE WORK OF THE INSTITUTE, 1897.

LONDON LECTURES AND EXAMINATIONS.

	Total Attendance.
4 Sessional Meetings for discussion of Sanitary subjects ..	285
36 Lectures to Sanitary Officers	2,251
2 Special Demonstrations, Inspection of Meat	140
34 Practical Demonstrations for Sanitary Officers	925
2 Examinations in Practical Sanitary Science	34
2 Examinations Sanitary Inspectors	213
138 Classes brought to the Museum	1,674
Other persons visiting the Museum (<i>Estimated</i>)	17,500

PROVINCIAL EXAMINATIONS.

8 Examinations Sanitary Inspectors and Practical Sanitary Science	316
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CONGRESS AND EXHIBITION AT LEEDS.

6 Sectional Meetings	706
8 Conferences	850
3 Addresses and Lectures	965
Exhibition open for twenty-three days, at which a number of Lectures and Demonstrations were given	75,790

It will be seen from this general epitome what a large field the work of the Institute now covers, and the members will feel that good progress is being made in the Objects which the Institute desires to accomplish.

OBITUARY.

It is with regret that the Council have to report the death of Dr. PROSPER DE PIETRA SANTA, *Hon. Fellow*; Sir HENRY DOULTON, Surgeon-General W. R. CORNISH and Mr. ERNEST HART, D.C.L., *Fellows*; H. C. FORDE, M.INST.C.E., Il Signor MELISURGO MELISSENOS, G. A. ROGERS, M.D., F. J. MOUT, M.D., F.R.S., Sir T. SPENCER WELLS, Bart., F.R.S., and G. WILLIS, M.D., *Members*; ALFRED AMOR, G. DALTON, A. J. FAIREY, WALTER HUGHES, A. L. McDONALD, *Associates*.

DOUGLAS GALTON, K.C.B.

E. WHITE WALLIS,

Chairman of Council.

Secretary.

March 9th, 1898.