THE GREAT WAR & THE IHVE
1910-1919

Charles Ingham Haden, President 1910-11
Director G N Haden & Sons Ltd
G. N. HADEN & SONS,
Engineers.

MANUFACTURERS OF
HEATING & VENTILATING APPARATUS.

ORIGINAL PATENTEES OF
THE EXPANSION JOINT.

Buildings of every description treated according to their special requirements, and success guaranteed.

HEATING
BY HOT WATER, WARM AIR, COMBINED AIR AND WATER, AND STEAM.

VENTILATION
BY MECHANICAL OR AUTOMATIC ARRANGEMENTS.

Other branches of Engineering Work carried out, including Hot Water Service, Laundry and Cooking Work, Engines, Pumps and Cold Water Supply, Hydrant Service, &c. &c.

HOT WATER RADIATORS of special designs.

PLANS AND ESTIMATES GIVEN.

Contractors to H.M. Government and the Crown Agents for the Colonies.

G. N. HADEN & SONS,
ENGINEERS,
TROWBRIDGE.

BRANCH OFFICES—

LONDON ... 123 Cromer Street, W.C.
MANCHESTER ... 4 Albert Square.
BIRMINGHAM ... Lower Temple Street.

G N Haden & Sons, founded 1816
Oliver M Row, President 1911-12
Director Royles Ltd
OLIVER M. ROW, Esq., PRESIDENT 1911/12.

The President of the Institution of Heating and Ventilating Engineers for 1911/12 was Mr. Oliver M. Row, M.I.Mech.E., who joined the Institution as a Member in 1902. Born in Cornwall in 1859, Mr. Row was educated privately, afterwards serving his time with Williams Perran Foundry Company, makers of heavy machinery, (mining, marine and general). At the end of his apprenticeship, in 1879, he went to Liverpool, entering the works of James Jack and Sons, marine engineers. After two years he became manager to Hocking and Company, Limited, of Liverpool, distillery and heating plant manufacturers. While there, Mr. Row developed his interest in the problems attaching to heat transmission in evaporative heating distilling, bringing out several patents connected with this and similar work. Notable among his inventions is the “Row tube,” perhaps the most effective type of tube yet invented for steam heating purposes. Later, Mr. Row took over the business himself, afterwards going to Manchester, where, in conjunction with Mr. J. J. Royle, the Irlam works of Royles, Ltd., was founded. These works have since proved eminently successful, their success being in large measure due to the strong personality of the subject of these notes. In addition to his labours in commercial engineering, Mr. Row has found time to interest himself in many branches of research work, besides being an active member of several of the Engineering Associations.

Some thirteen years ago Mr. Row became a member of the Institution of Mechanical Engineers, joining about the same time the Iron and Steel Institute of Great Britain, and is also a member of the American Society of Heating and Ventilating Engineers. In the year 1906 Mr. Row was awarded the Silver Medal of the Institution of Heating and Ventilating Engineers for the paper he read at the Summer Meeting at Bristol, on “The Uses of Steam for Heating Purposes,” and another paper was read by Mr. Row at the Annual General Meeting, February 6th, 1912, on “The Effect of Water Pressure in Preventing the Transmission of Heat from Steam Through Surfaces.” A Bronze Medal was awarded to Mr. Row at the Franco-British Exhibition in 1908 for his contribution of apparatus for “Heat Transmission.” Mr. Row’s knowledge, both theoretical and practical, has been of the greatest value to the Institution, and the genial manner in which he has guided the affairs of the Institution during his year of office will long be remembered by those who have come into contact with him.
Heat Transference to or from Liquids or Gases

ROYLES "MILLETHERM"

* Boiler Feed Water Heating by Exhaust Steam.
* Oil Heating or Cooling.
* Condensate Cooling.
* Most processes involving the Transfer of Heat to or from Liquids and Gases.

Where steam is concerned, it may be either "live" or "exhaust". In these and other applications "MilletHERM's" exceptional efficiency quickly recoups its initial cost through heat and fuel economy.

Please ask for catalogue

IRLAM, MANCHESTER

Royles Ltd
IHVE Summer Meeting, Grosvenor Hotel, Chester 1912
President Charles L Honiball

IHVE Summer Meeting, Harrogate 1913
President J E Hartley
Charles R Honiball, President 1912-13
Owner C R Honiball of Liverpool
CHARLES R. HONIBALL, Esq., PRESIDENT 1912/13.

The President of the Institution of Heating and Ventilating Engineers for 1912 is Mr. Charles R. Honiball, M.I.Mech.E., who joined the Institution in 1905 as member. Born in Liverpool in 1864, he received his general education in the public schools and his scientific education in the School of Science and University College of Liverpool. In 1877 he was apprenticed for seven years to the firm of David Crawford & Co., marine and general engineers, with whom he remained until 1889. During his association with this company he acquired an extensive knowledge of many branches of mechanical engineering, and at an early date became intimately engaged in the work of warming and ventilating of steamships, steam and heat engineering. In 1889 he was appointed work's manager, and in 1893 chief designer of the Liverpool Engineering Condenser Co., Ltd., manufacturers of evaporating, heating, condensing, distilling, fresh water, &c., machinery for land and marine purposes. During his association with this company, which extended to the year 1901, he assisted very largely in the development, perfecting, and extension of the firm's specialities, carrying out on their behalf a considerable amount of research and experimental work to solve the numerous problems met with in connection with the design and successful operation of large and complicated plants for admiralty, mercantile, marine and land purposes of this and foreign countries. From 1901 to the present time, he has been wholly associated with his own company in the development and execution of warming, ventilating, cooling, refrigeration and electrical work.

For upwards of twenty-five years Mr. Honiball has taken great interest in the technical education of engineers. For the past twenty years he has been on the staff of the Education Authorities as lecturer in engineering science in the evening Technical Schools of Liverpool. In addition to his labours in commercial engineering and education he has found time to devote to scientific research work, and take an active part in the work of the institutions and societies to which he belongs. In 1907 he was awarded the bronze medal of the Institution of Heating and Ventilating Engineers for his paper on "The Warming of Steamships," and in 1911, their silver medal for his two papers on "Humidity of Air."

Some fifteen years ago Mr. Honiball became a member of the Institution of Mechanical Engineers and also of the Liverpool Engineering Society. He is also Vice-President of the National Association of Master Heating and Domestic Engineers, Member of the American Society of Heating and Ventilating Engineers, Member of the Cold Storage and Ice Association, and several other Scientific Societies.
IHVE Summer Meeting, Hampton Court 1914
President Kenneth Gray

IHVE Summer Meeting, Leamington 1915
President Herbert H Grundy
J E Hartley, President 1913-14
Managing Director Hartley & Sugden Ltd
J. E. HARTLEY, Esq., PRESIDENT 1913-14.

The President of the Institution of Heating and Ventilating Engineers for the year 1913-14 was Mr. J. E. Hartley, who joined the Institution in 1900, and during the whole of his membership took a very active interest in its work.

Born in Halifax in 1867, Mr. Hartley was educated at a private boarding school, after leaving which he joined the firm of Messrs. Hartley and Sugden, Ltd., Halifax, and there, through the wisdom and forethought of his parents, he passed through every department, both of the works and the office, and laid the foundation of that thorough and informed knowledge of his business which has been a marked feature of his later life. It is an interesting commentary on his zeal and application that when only twenty-five years of age Mr. Hartley was given the position of Managing Director—a position which he has held with success to the present day—a number of years that he does not care to dwell upon.

Mr. Hartley throughout took an enthusiastic interest in the work of the Institution, serving on the Boiler Rating and other Committees, and was, as a result, elected to the position of Vice-President of the Institution in 1910—a fitting reward for work well done—whilst 1913 he qualified for the topmost honour in the gift of the Institution, and became its President.

Mr. Hartley has for many years taken great interest in the Volunteers and Territorials, and had the honour of commanding his Battalion for four years. After nearly twenty years’ service he retired with the honorary rank of Lieutenant-Colonel.
HARTLEY & SUGDEN'S
IMPROVED WROUGHT WELDED SADDLE BOILER
TO WHICH THE
GOLD
MEDAL.

ROYAL HORTICULTURAL SOCIETY'S SHOW.
WAS AWARDED AT THE
AT BIRMINGHAM, JUNL., 1837

“GOLD MEDAL BOILER”
REGISTERED TITLE.

ELEVATION IN BRICKWORK

CROSS SECTION.

LONGITUDINAL SECTION.

ELEVATION WITHOUT BRICKWORK.

A Ashes Pit. 
B Fire 
C Centric Flue 
D Right & Left Return Flues 
E Water-way Terminal End.
F Sliding Seat Door for Cleansing Flues, with Fire Brick 
G Sludge Flaps for cleansing internal part of Boiler 
H Regulating Flues 
I Hollow Space round Boiler

utilising heat given off from external surface of Boiler.

Hartley & Sugden, established 1867
Kenneth Gray, President 1914-15
Director James Gray Ltd
KENNETH GRAY, Esq.—President, 1914-1915.

The President of the Institution of Heating and Ventilating Engineers for the year 1914-1915 was Mr. Kenneth Gray, who joined the Institution in 1904. Born in 1870 in London, Mr. Gray was educated at the Chelsea Grammar School and at St. Mark’s College, Chelsea. He entered the works of his father, Mr. James Gray, and for some years was engaged in the erection and installation of heating and ventilating apparatus, and afterwards entered the drawing office. At the time the business was changed to James Gray, Ltd., he became a director of the Company. Mr. Gray has been Chairman of the Junior Institution of Engineers, and is a Member of the Royal Sanitary Institute. He has made contributions to several technical and scientific Magazines.
JAMES GRAY,
HEATING ENGINEER,
DANVERS STREET, CHELSEA,
LONDON.

Plans and estimates supplied **FREE OF CHARGE**, for heating buildings of every description.

BATHS & LAVATORIES FITTED WITH HOT & COLD WATER SUPPLY.

James Gray, established before 1894
Medals were awarded for the best papers of the past year, Mr. Oswald Stott receiving the Silver Medal and Mr. G. L. Copping the Bronze Medal.

On the following day the members and ladies journeyed by train to Fleetwood, thence by steamer to Barrow, thence to Lakeside by train where an excellent luncheon was provided by the President. Afterwards the party travelled by steam launch to Ambleside and by coaches to Coniston where tea was served before the return journey was commenced.

In commemoration of the Southport Meeting the President gave a badge to all who were present.

On the Thursday some of the members visited the New Mechanical Engineering and Electrical Engineering Laboratories of Liverpool University and inspected also the Heating and Ventilating arrangements of St. Georges Hall, Technical School Library, Museum, Art Gallery, &c., in Liverpool accompanied by the President, and this terminated a very enjoyable time, long to be remembered by those who were able to attend the Summer Meeting.

The Autumnal General Meeting took place on October 16th in the Botanical Hall of the University College, London; 65 signed the Attendance Register.

In the afternoon the members were afforded the opportunity of attending a Lecture given by Mr. A. H. Barker on "The Theory and Limitations of Approximate Calculations in Heating and Ventilation."

At the evening meeting six new members, six associate members and two associates were elected, and one transfer from graduate to associate member.

Mr. J. E. Hartley, of London (Messrs. Hartley & Sugden, Ltd.) who has been a member of the Institution since 1900 and has taken a very active interest in the working, was unanimously elected as President for 1913, and Messrs. K. Gray, H. H. Grundy and S. Naylor as Vice-Presidents.
The usual banquet was held in the evening, at which a smaller number than usual was present on account of the conditions prevailing at the time. The entertainment following the Banquet was provided by some of the Members present, and was much appreciated.

On Wednesday, June 23rd, the Members and Ladies left Leamington by motor chas-a-banc for a drive to Evesham, where luncheon was provided by the President at the King’s Head Hotel. After having had the opportunity of looking round the quaint market town and its buildings, the party left for Stratford-on-Avon, where opportunity was given to spend a very pleasant hour before returning to Leamington. On the return to headquarters tea was served on the lawn, and soon afterwards most of the Members were on the way to their respective destinations.

Whilst the number at the Summer Meetings was smaller than for several years past, those present felt that it had been a wise course to hold them, thus giving an opportunity of spending a pleasant and profitable time in each other’s company.

The Autumnal General Meeting was held on October 12th at the Holborn Restaurant, at which forty-nine were present.

Two new Members and one Associate Member were elected, one transfer to full Membership and one transfer from Graduate to Associate Member.

A Paper was read by Mr. Walter Jones (Past-President) entitled “Heat Transmission and Heat Emission.”

A further Paper was read by Mr. S. Naylor (Vice-President) entitled “A Comparison Between Forced Firing and Slow Combustion.”

New President. Mr. S. Naylor, of Halifax, was unanimously elected as President for 1916, and Messrs. Edgar Herring, J. Duncan Boyd, and W. W. Nobbs as Vice-Presidents.


Research Work at University College. Mr. A. H. Barker presented his report of the work being done at the College, and pointed out that this was being hindered to some extent by the lack of sufficient equipment to carry on the same. The report had been previously considered by the Technical Education Committee and the Council, and it was decided by the General Meeting that a sum to be arranged by the Committee which was then appointed to confer with Mr. Barker should be paid out of the surplus in the Prize and Research Fund for the purchase of apparatus.
Herbert H Grundy, President 1915-16
Managing Director John Grundy Ltd
HERBERT H. GRUNDY, Esq.—President, 1915-1916.

The President of the Institution of Heating and Ventilating Engineers for 1915 is Mr. HERBERT HAMILTON GRUNDY, who joined the Institution as a Member in 1903.

Born in London in 1880, he received his general education at the Islington High School, and technical education at the Northampton Institute and Northern Polytechnic.

From 1896 to 1900 he was engaged upon practical work in erecting and supervising heating and ventilating installations in various parts of the country. After this a period was spent at the firm's works, situated at Tyldesley in Lancashire, where Mr. Grundy acquired a knowledge of foundry work and pattern making.

In October, 1904, the President read a Paper before the Members of the Institution entitled "The Warming of Public Buildings by the Warm Air System considered from the Hygienic Point of View."

During the past five years Mr. Grundy has been engaged upon perfecting and manufacturing apparatus for an electrical system of heating, also an electrical method of thermostatic control for the following: Electric stoves, electric immersion heaters, steam calorifiers, hot water, steam and gas valves.

He has patented and installed thermostatic apparatus for the control of electric motor-driven fans used in the warm air system of heating factories and schools, and has equipped for the Government apparatus for the electric automatic control of temperature for the sterilization of returned foreign money orders and the maintenance of a constant temperature in automatic telephone exchanges and magnetic departments of astronomical observatories. He has also devised a system of "Remote Reading Thermometers."

Mr. Grundy compiled data extending over two winter seasons, which formed the basis of a paper by Mr. C. H. Avery and the Department of Heating and Ventilating Engineering, which was read at the Summer Meeting in London, June 23rd, 1914, entitled "Some Experiments in Loss of Heat in Public Buildings."

Mr. Grundy became Managing Director of John Grundy, Ltd., on the death of his father, Mr. John Grundy, which occurred in 1913.

Early in 1914 his firm was placed under Government control, and has been since this time principally engaged upon munitions work.
Schemes and Estimates submitted free of charge for installations of Warm Air, Low Pressure Hot Water or Steam Apparatus.

PERFECT EFFICIENCY GUARANTEED.

JOHN GRUNDY,

... Heating and Ventilating Engineer,

MANUFACTURER AND PATENTEE OF

"HELIOS" and "SIRIUS" Smoke Consuming Grates for Chimney Pieces.
"HESTIA" slow and Quick Combustion Portable Warming and Ventilating Stoves.
"CALORIFER" and the well-known "GRUNDY" Smoke Consuming Central Fresh Warmed Air Heating Apparatus for Public Buildings and Private Dwellings.

27 MEDALS HAVE BEEN AWARDED.

Makers of Boilers, Ward Stoves,
Radiators, Ventilators, & Ranges.

BOOK CONTAINING A THOUSAND TESTIMONIALS
FORWARDED ON APPLICATION.

The well-known firm of HAMPTON & SONS, Pall Mall East, London, S.W.,

write:

Mr. JOHN GRUNDY, 30, Duncan Terrace, London, N.

Nov. 24th, 1908.

Dear Sir,

In response to your letter of the 3rd inst., we have much pleasure in stating that your Heating Apparatus is used with great success at our Depositories at Battersea. The best proof of our satisfaction is that we are having your Heating Apparatus installed into our additional blocks of Depositories now in course of erection. We are of opinion that for safety, hydraulic and all useful purposes, our mode of heating is the best. We have no trouble in working the apparatus which is simple and very efficient. We have pleasure in giving you this testimonial, and wish you the success your system deserves.

Yours truly,

HAMPTON & SONS,

W. HAMPTON, Managing Director.

Head Office: 30, DUNCAN TERRACE, CITY ROAD, N.

Show Rooms and Work Rooms:
Torrens Street, Islington, N., & 393a, City Road, London, N.

Factory: THE TYNDESLEY IRON WORKS, nr. MANCHESTER.

Telegrams—"JOHN GRUNDY," LONDON. National Telephone—No. 552, KING'S CROSS.
Sam Naylor, President 1916-18
Director Lumby, Son & Wood Ltd

Mr. Sam Naylor filled the position of President for two years, viz., from February, 1916, to February, 1918.
Born at Halifax in 1864, he received his early education at Colonel Akroyd’s School and after leaving continued his studies by all the means within reach. In 1882, both Mr. Edwin Lumby and his son having died suddenly, the firm Mr. Naylor was connected with became Messrs. Lumby Son & Wood, and in 1886 the firm was registered as a Limited Company. Mr. Naylor became a director in 1896 and still holds that position. His election as President of the Institution coincided with the completion of 40 years with his firm, commencing in 1876.
From the earliest days of his connection with the firm of Messrs. Lumby Son and Wood, Ltd., Mr. Naylor, though then a mere boy, took a keen interest in the practical side of the business and made “the evolution of the boiler” his chief concern. Many boilers in use to-day are of his design and under his patents.
On the inauguration of the Institution of Heating and Ventilating Engineers Mr. Naylor became a member and was elected on the Council in 1900. In 1903 he was elected as Vice-President and was a member of the Boiler Rating Committee.
Mr. Naylor read a paper before the Institution in 1900 on “Boilers for Low Pressure Hot Water Heating.” In 1902 his paper on the “French System of Steam Heating” gained the Silver Medal offered by the Institution. This was the first occasion on which the French system, now so widely known and appreciated, was introduced into England. Mr. Naylor also read a paper on October 12th, 1915, on “Comparisons between forced firing and slow combustion.”
Mr. Naylor is a well-known Freemason and a member of the Greentead Council and of the Executive Council of the Halifax Local Volunteer Corps.
Lumby Son & Wood Ltd, became a limited company in 1882
Edgar Herring, President 1918-20
Director J Jeffreys Ltd
EDGAR HERRING, — President, 1918-1920.

Mr. Herring has filled the office of President for two years, viz., from February, 1918, to February, 1920.

Born in 1868, he was educated at Putney High School and Richmond Grammar School, but by all the laws of heredity he should have become an artist rather than an engineer, for he is a grand-nephew of John Herring the renowned animal painter, whose sporting pictures are now so greatly prized. However, Mr. Herring became an engineer, entering the offices of the late Mr. J. Jeffreys, who then carried on business as a Heating and Ventilating Engineer in Old Queen Street, Westminster. In 1903 he became a partner with Mr. Jeffreys, and when the business was converted into a Limited Liability Company, a Life Director. On the death of Mr. Jeffreys, Mr. Herring was elected Chairman of the Company.

With his late partner he was associated in the designing and carrying out of many large Heating and Ventilating Installations, including that of the Victoria and Albert Museum, the Prudential Buildings in Holborn, Cardiff University College, Stockport Town Hall and the Strand Palace Hotel.

In spite of many professional claims, Mr. Herring has devoted much time to the work of the I.H.V.E. The Research Work carried on at the University College, has been his special interest, and the progress made there, owes much to his freely given services, together with the important subject of Fuel Economy.
JEFFREYS
J Jeffreys & Co Ltd, 11 Old Queen Street, Westminster, London, SW. Founded in 1881 by John Jeffreys at Baron’s Place in the Waterloo Road, London. Early projects include work at the Victoria & Albert Museum, the Prudential in High Holborn, Cardiff University College, Stockport Town Hall and the Strand Palace Hotel. Amalgamated with the Balfour Kilpatrick BICC Group in 1973. [BSE/1/45]. Edgar Herring, 13th President IHVE, 1918/19; P M Brankston Grenville, 24th President IHVE, 1924 & 11th President HVCA, 1925/27; J W Cooling, 32nd President IHVE, 1932; J M Cooling, 68th President IHVE, 1975 when Balfour-Kilpatrick & 47th President HVCA, 1969/70; J W Cooling, 29th President HVCA, 1951/52].

Short History of J Jeffreys