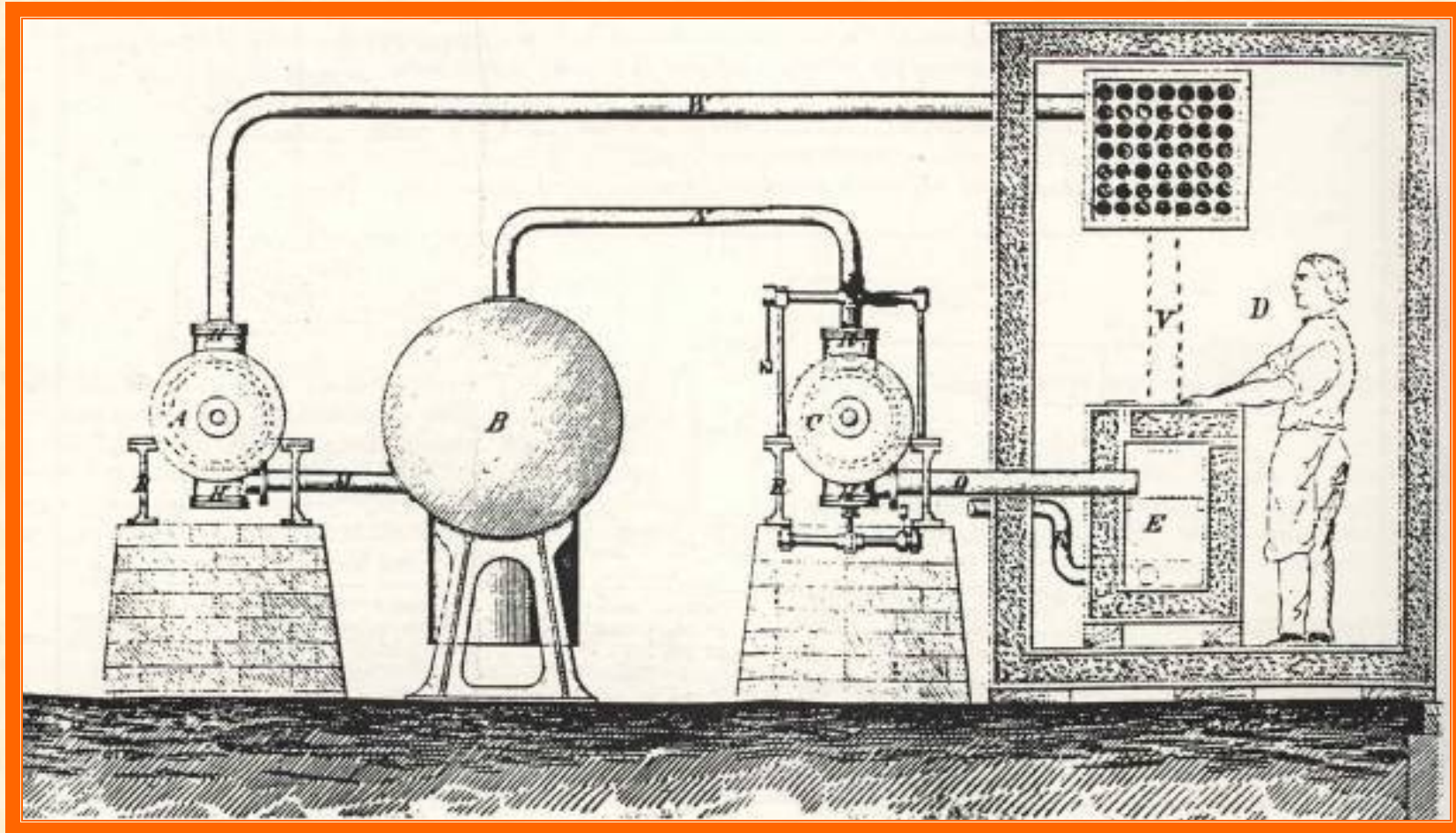


# CIBSE HERITAGE GROUP

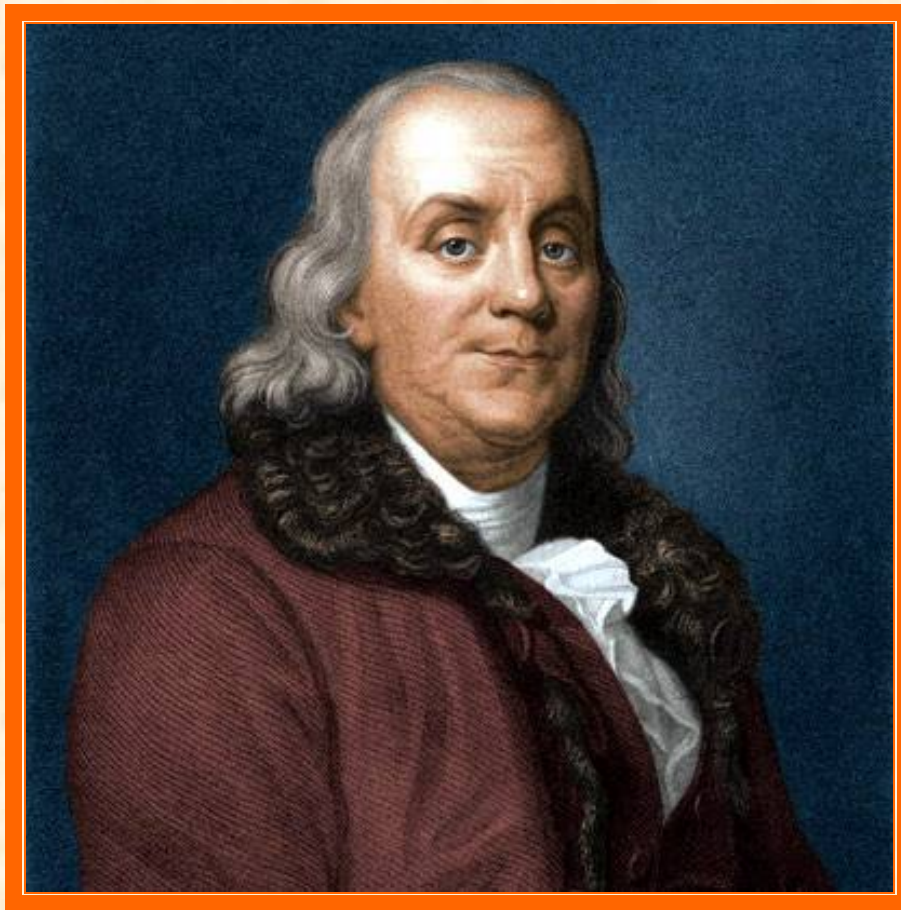
## CALENDAR FOR 2015



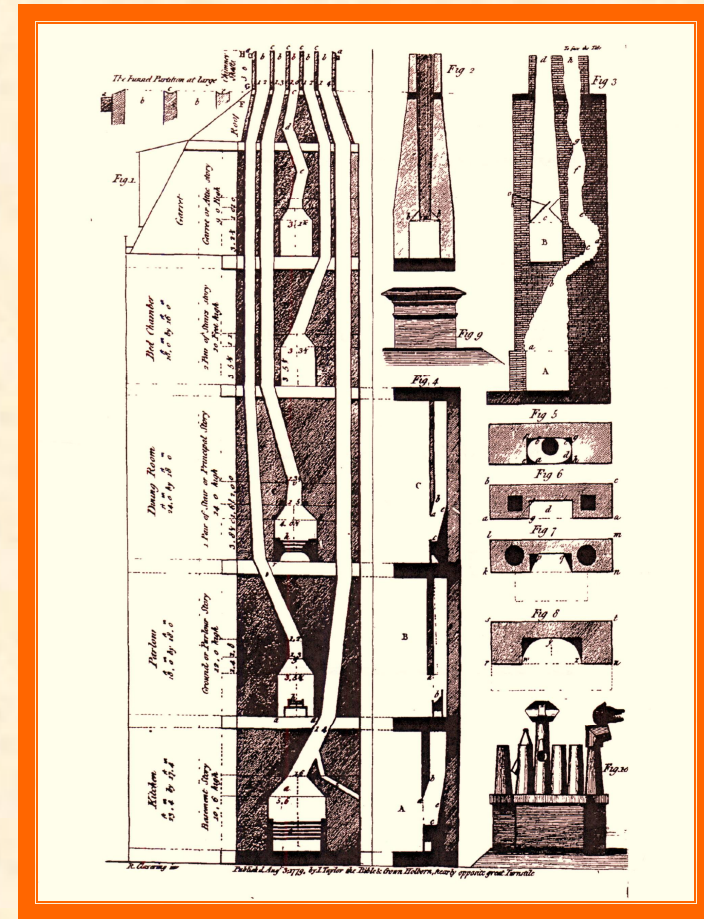
John Gorrie's Improved Ice Machine of 1854

# BENJAMIN FRANKLIN, 1706-1790

American statesman and scientist who introduced the *Pennsylvanian* fireplace, heated a row of houses by an iron stove-furnace, experimented with chimney design, static electricity and started a fire service



Adopted as the Patron Saint of the American Society of Heating & Ventilating Engineers (now ASHRAE)



Wrote *Observations on the Causes and Cures of Smokey Chimneys*



# January 2015

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# COUNT RUMFORD (Sir Benjamin Thompson FRS), 1753-1814

He invented a double boiler, a pressure cooker and a kitchen range. While boring a cannon he noted the conversion of mechanical energy into heat and devised rules for *Chimney Fireplaces*. He founded the Royal Institution (1799) and is still remembered by the *Rumford Club*.



Scientist, Statesman, Soldier, Spy



Grant of Coat of Arms (1784)



# February 2015

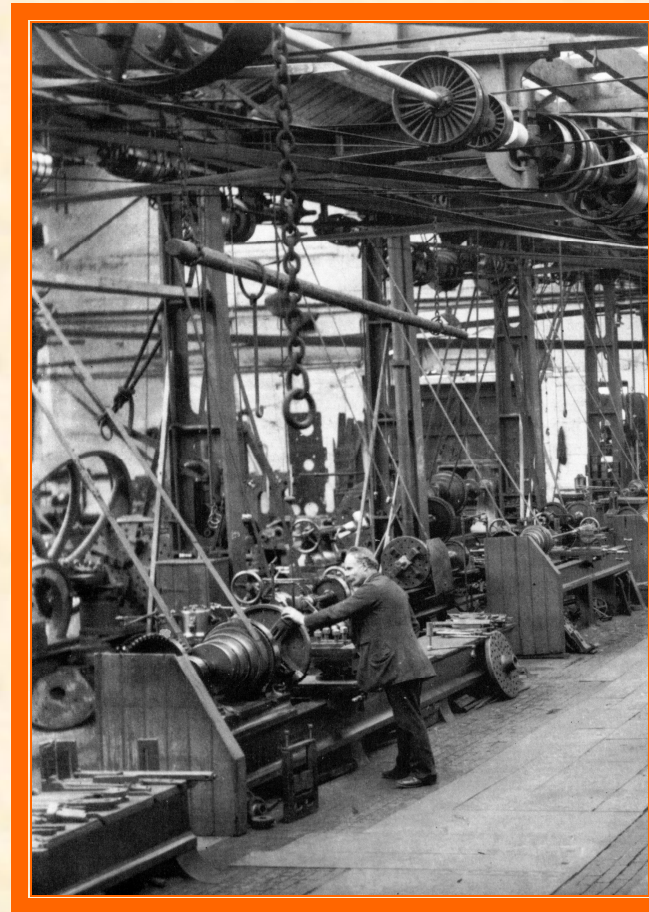
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## JOHN HALL, 1764-1836

He was the founder of a business in a small workshop in Dartford, Kent in 1785. The Company grew to be J & E Hall, building first cold air refrigerating machines and then carbon dioxide equipment for the frozen meat trade and for marine applications.



Refrigeration pioneer



An early view of the J & E Hall machine shop

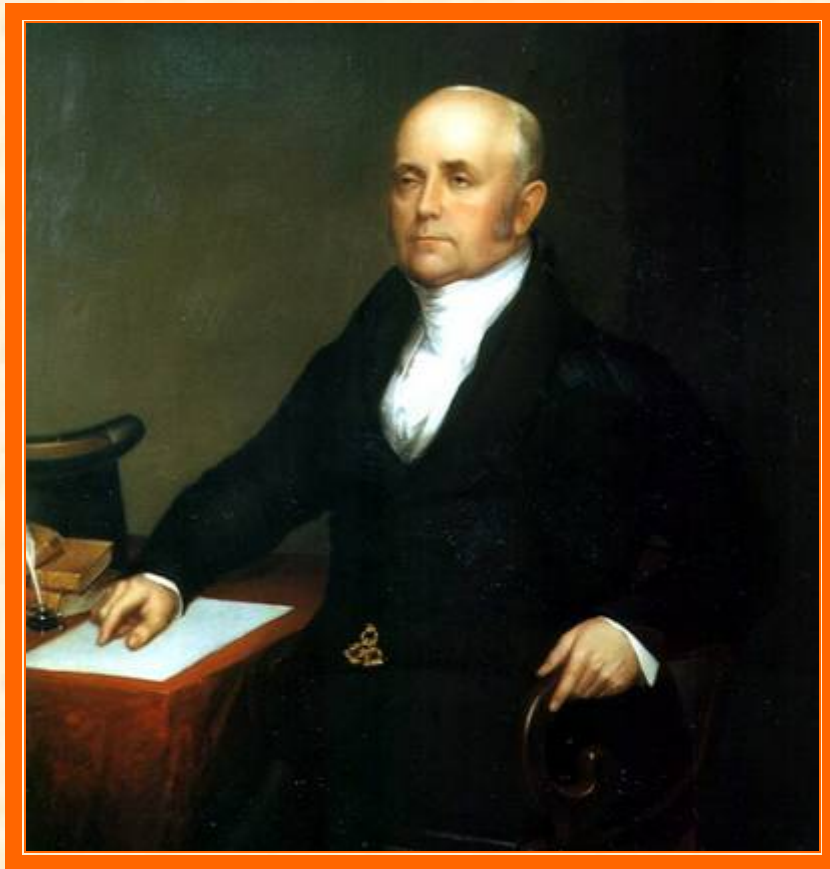


# March 2015

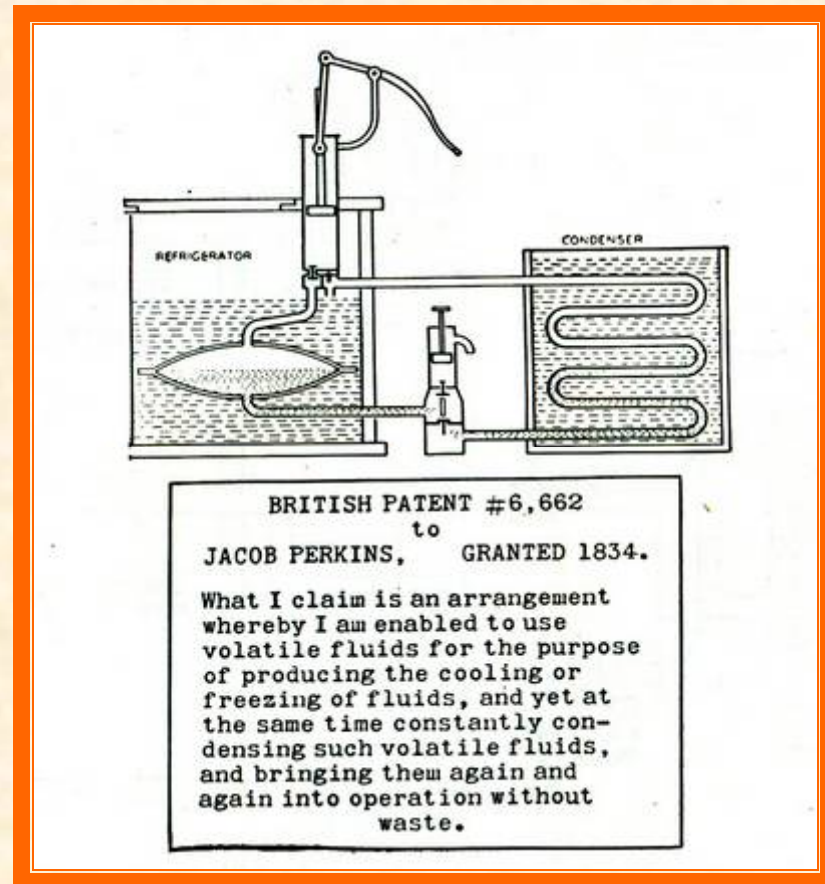
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## JACOB PERKINS, 1766-1849

He was born in Massachusetts but moved to England where he secured a number of patents relating to boilers and steam engines. Perkins went on to patent a closed-cycle vapour-compression refrigerating machine.



Refrigeration pioneer



Patent for *Improvement in the Apparatus and Means for Producing Ice, and in Cooling Fluids*



# April 2015

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# RICHARD TREVITHICK, 1771-1833

English mining engineer who invented a water-powered pumping engine and a high pressure steam engine and developed the *Cornish* boiler. Worked as a refrigeration consultant for J & E Hall and advised Jacob Perkins but died in poverty.



Remembered for his *Cornish* Boiler



Memorial tablet in Dartford Parish Church

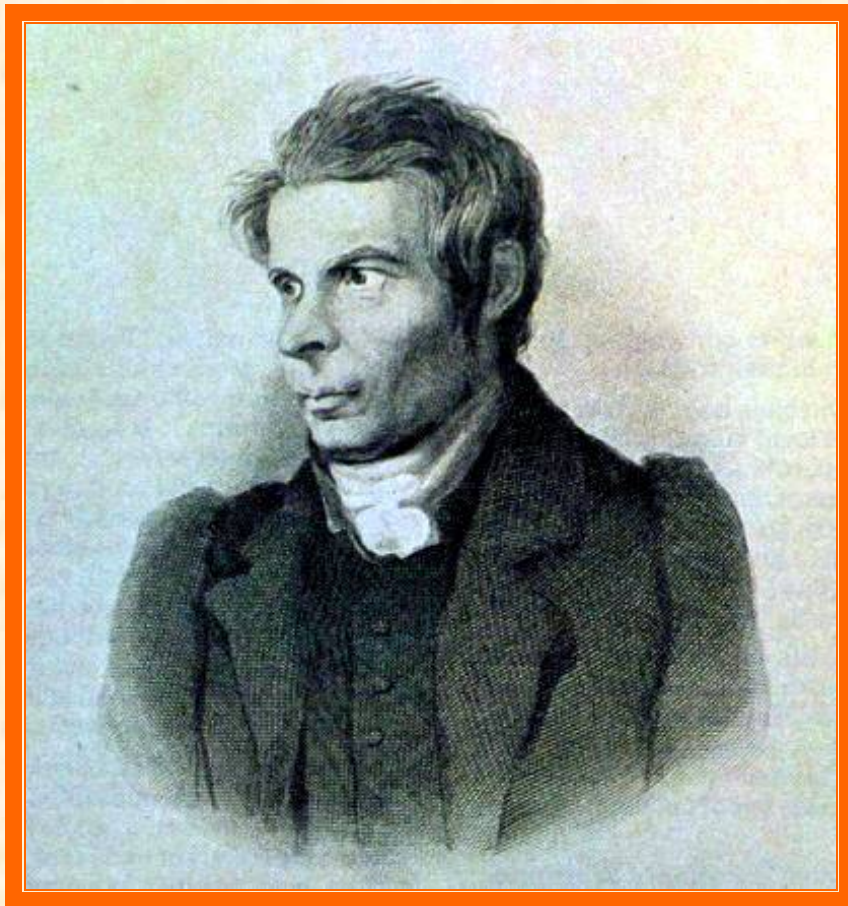


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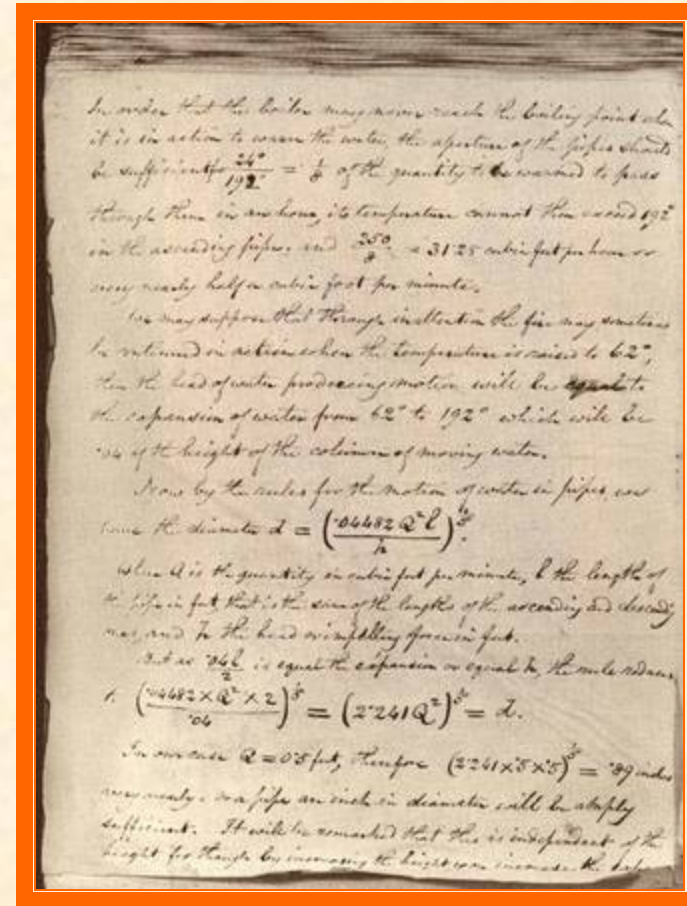
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# THOMAS TREDGOLD, 1788-1829 Hon.MICE

English engineer who published papers on elasticity, strength of materials, and flow of fluids. He deduced the heat emissions of steam and water pipes and he calculated heat transmission through a window.



He wrote *Principles of Warming & Ventilating Buildings*



Extract from Tredgold's letter of 23 October 1826 to Francis Bramah

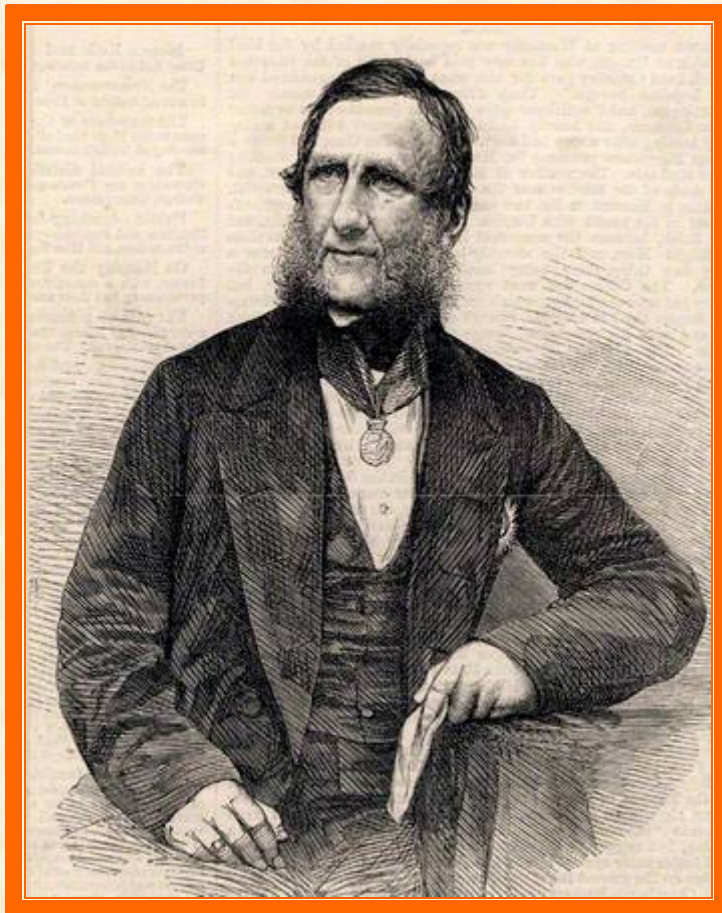


# June 2015

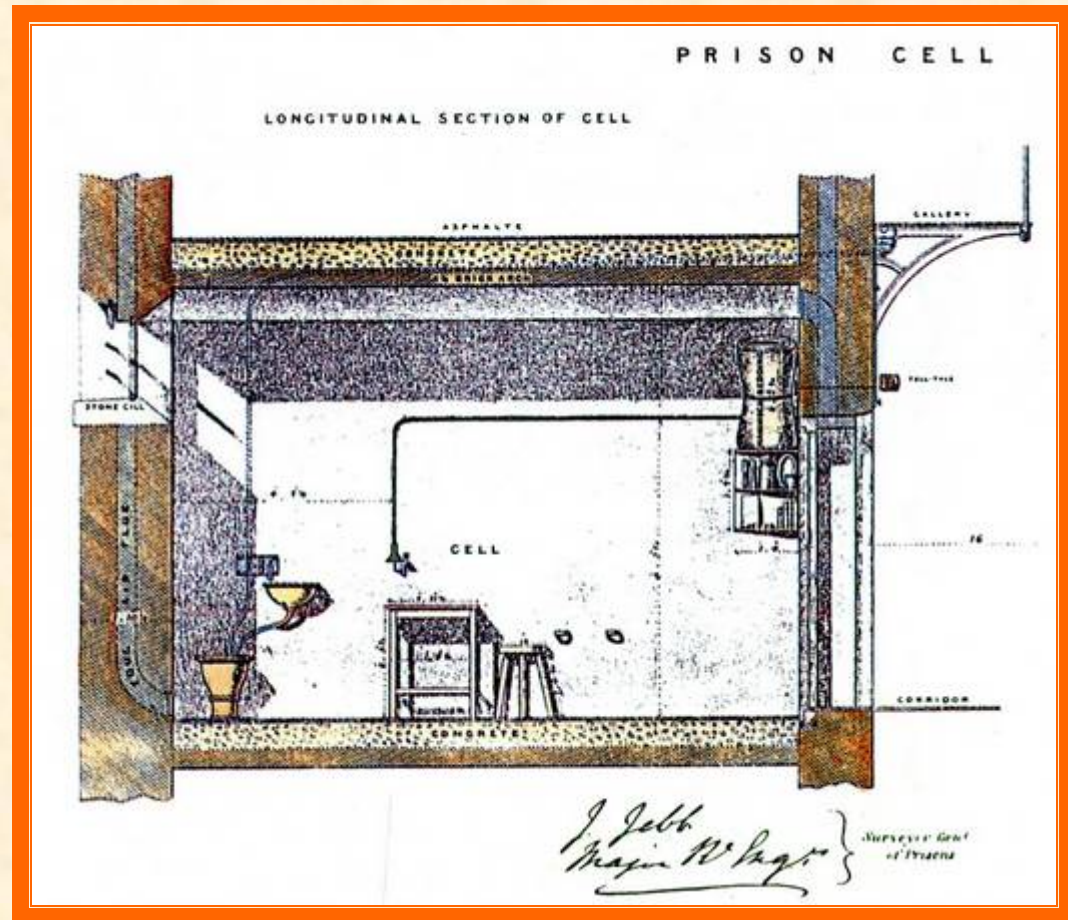
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# Lieutenant Colonel Sir JOSHUA JEBB RE, 1793-1863

A military officer responsible for the design and construction of Pentonville Prison employing G & J Haden to carry out the installation of heating and ventilation.



Surveyor-General of Prisons



Pentonville Prison Cell with heating, ventilation, sanitation and gas lighting

# July 2015

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## Sir **GOLDSWORTHY GURNEY**, 1793-1875

He was the inventor of a steam carriage, the Bude Light and the Gurney Stove and revised the ventilating systems of the House of Commons (though not entirely successfully). The Gurney stove was installed by the London Warming and Ventilating Company in some 22 Cathedrals and in around 10,000 churches and other buildings.



**Gentleman Scientist and Inventor**



**Gurney Stove in Bude**

# August 2015

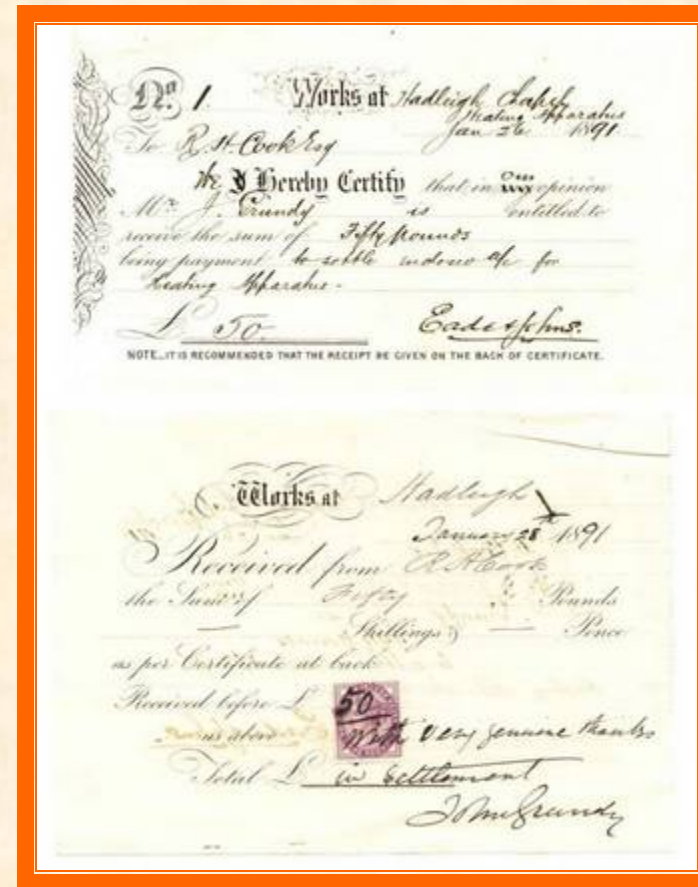
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# JOHN GRUNDY, 1844-1913 Past President IHVE

Heating and ventilating engineer and heating apparatus manufacturer of stoves and grates winning numerous exhibition medals with installations in several cathedrals and many churches.



First President of the Institution of Heating & Ventilating Engineers in 1898



Grundy receipt of 1891

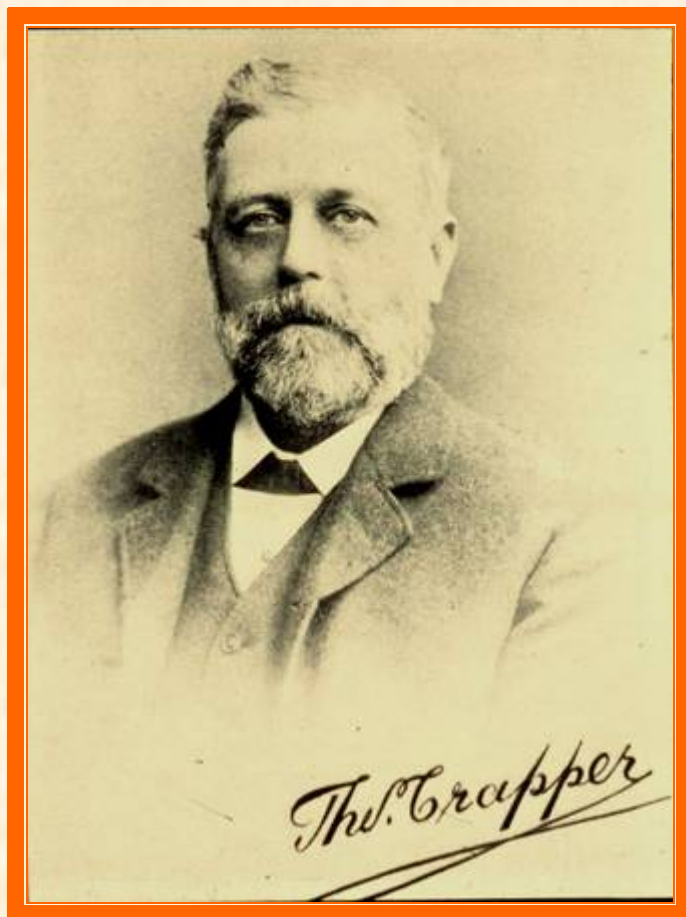


# September 2015

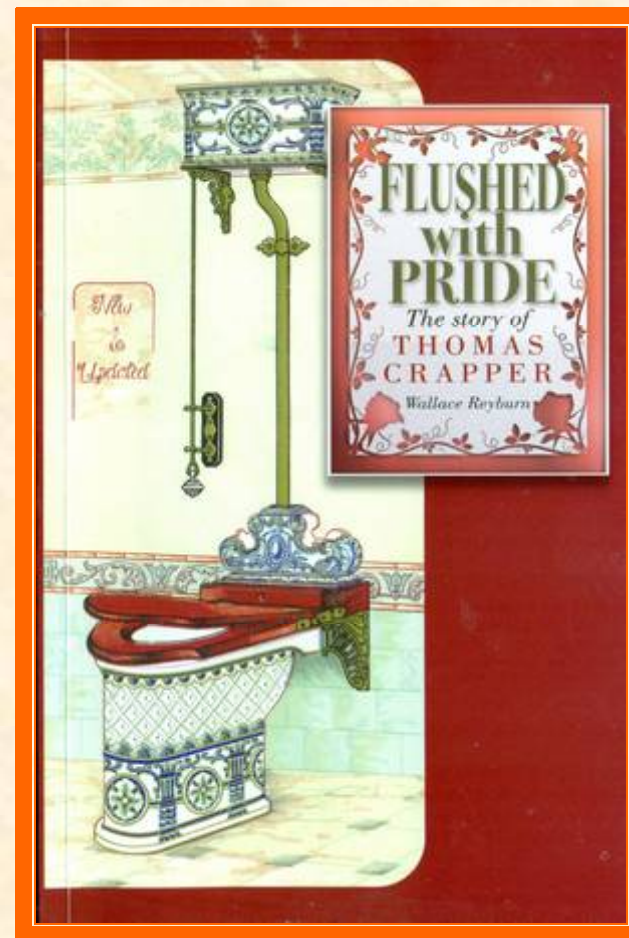
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## THOMAS CRAPPER, c.1845-1910

He was a pioneering sanitary engineer who made a number of minor improvements to water closets and allied equipment and sought to improve industry standards and raise public awareness of the importance of good sanitation.



Crapper became a household name



A History of the Man and His Company

# October 2015

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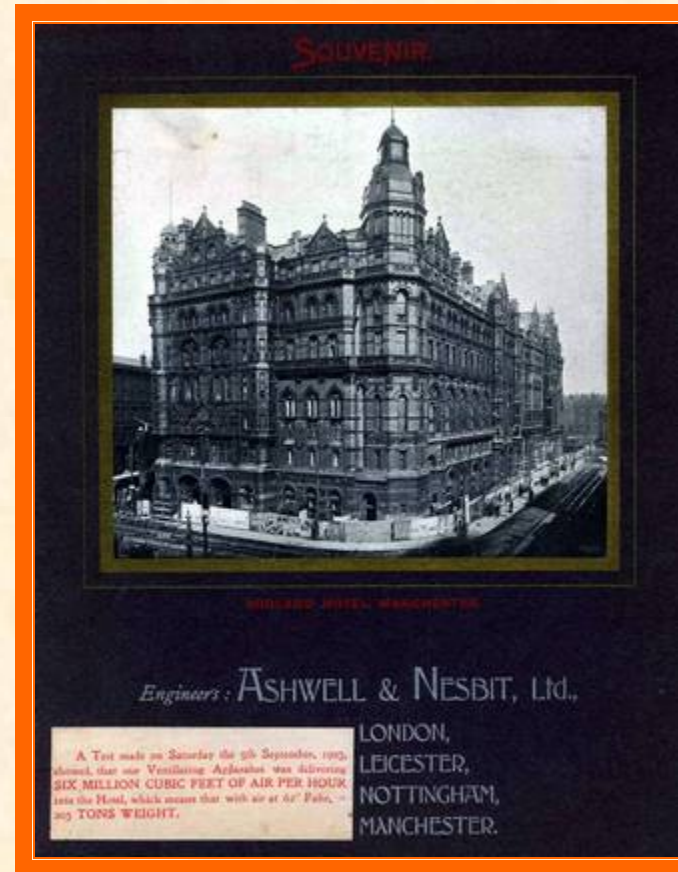


## DAVID MEIN NESBIT, 1855-1929 Past President IHVE & HVCA

Co-founder of heating engineers Ashwell & Nesbit. He was the First President of the HVCA serving from 1904-1909 and the Third IHVE President in 1900. A visit to New York, where he received a discourteous reception to his technical paper, is said to have been instrumental in setting up the ASHVE.



Largely responsible for helping create separate organisations for technical and contractual matters



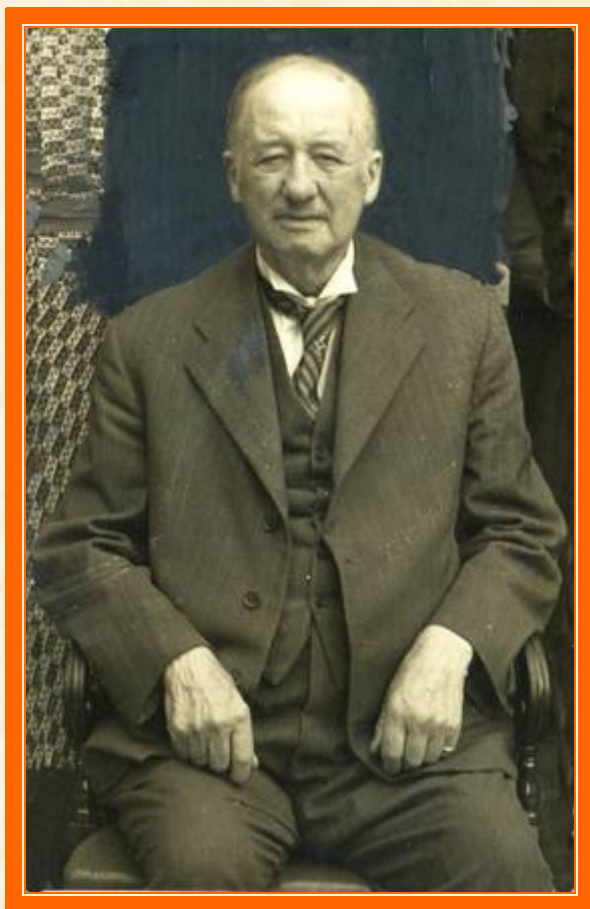
Ashwell & Nesbit Souvenir Brochure of 1903 For H&V at the Midland Hotel, Manchester

# November 2015

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## GEORGE CRISPIN, 1868-1950 Past President IHVE

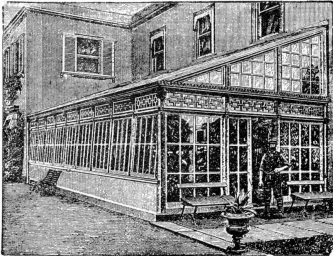
Eighth IHVE President in 1905, Crispin was a strong advocate of the value of summer meetings and social activities and noted for being a gifted singer and entertainer.



Bristol Heating Engineer

CRISPIN'S, BRISTOL,  
**Horticultural Builders.**  
HEATING, VENTILATING, and DOMESTIC  
--- ENGINEERS. ---

\* Plans and Estimates Furnished. \*  
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\* Surveys made. \*



\* Catalogues Post Free on application. \*

Clients advised on erection of all classes of Horticultural Buildings and Heating Apparatus, and success guaranteed.

**JAMES CRISPIN & SONS,**  
F.R.S.S.  
Head Offices:—NELSON STREET,  
Works:—ST. PHILIPS,  
Telegrams:—CRISPIN'S, BRISTOL." BRISTOL.  
( vi. )

Advertisement of 1904

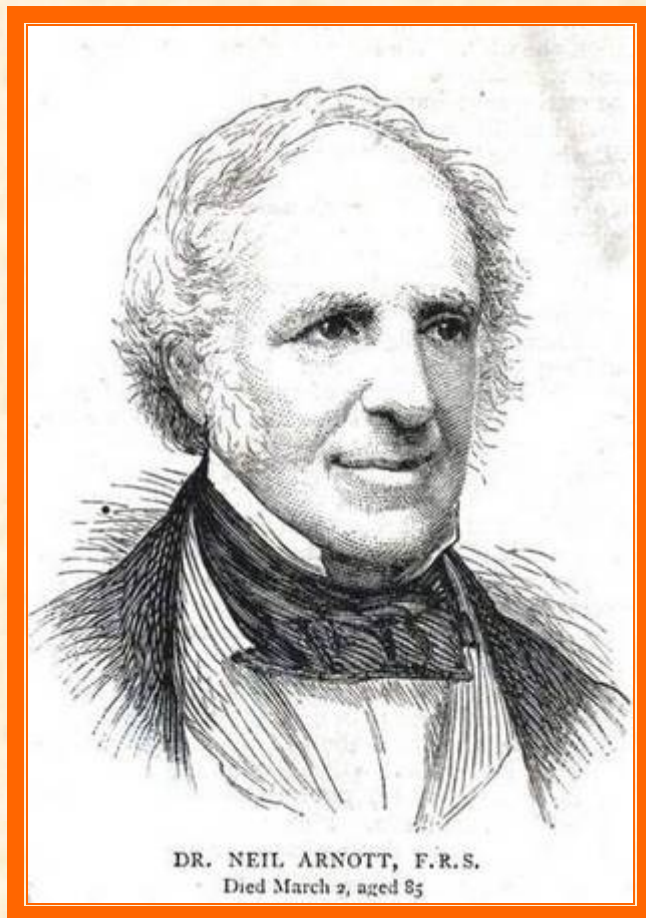


# December 2015

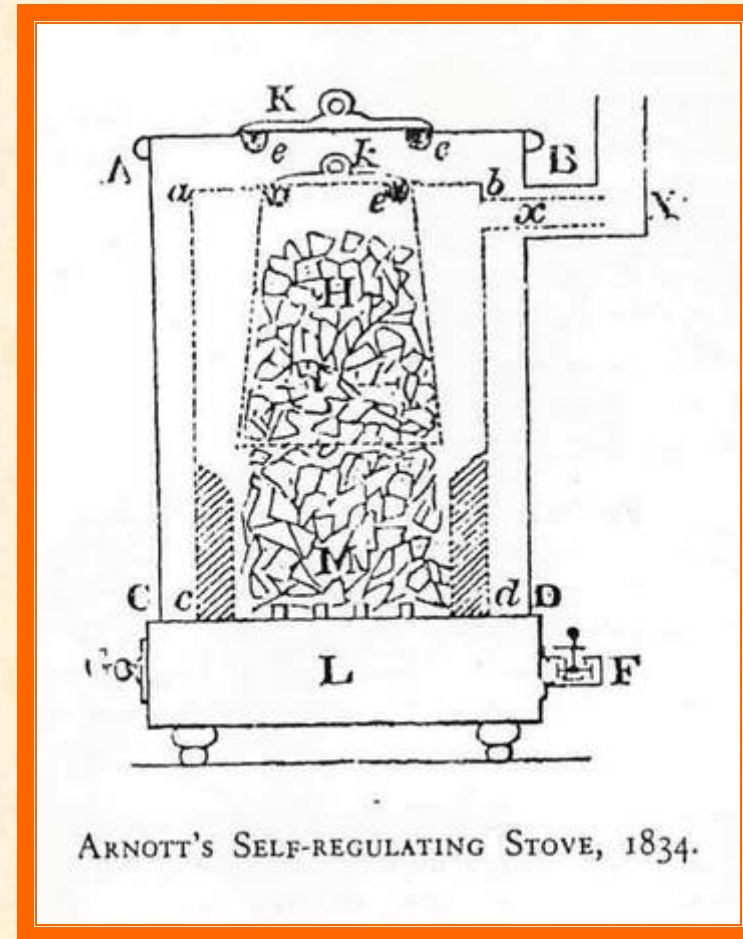
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## Dr NEIL ARNOTT FRS, 1788-1874

He described the use of fires, chimneys and stoves, explained heating by steam, hot water and hot air, their application to various buildings and how to make a thermometer-stove.



Doctor of Medicine and Physician  
Extraordinary to Queen Victoria



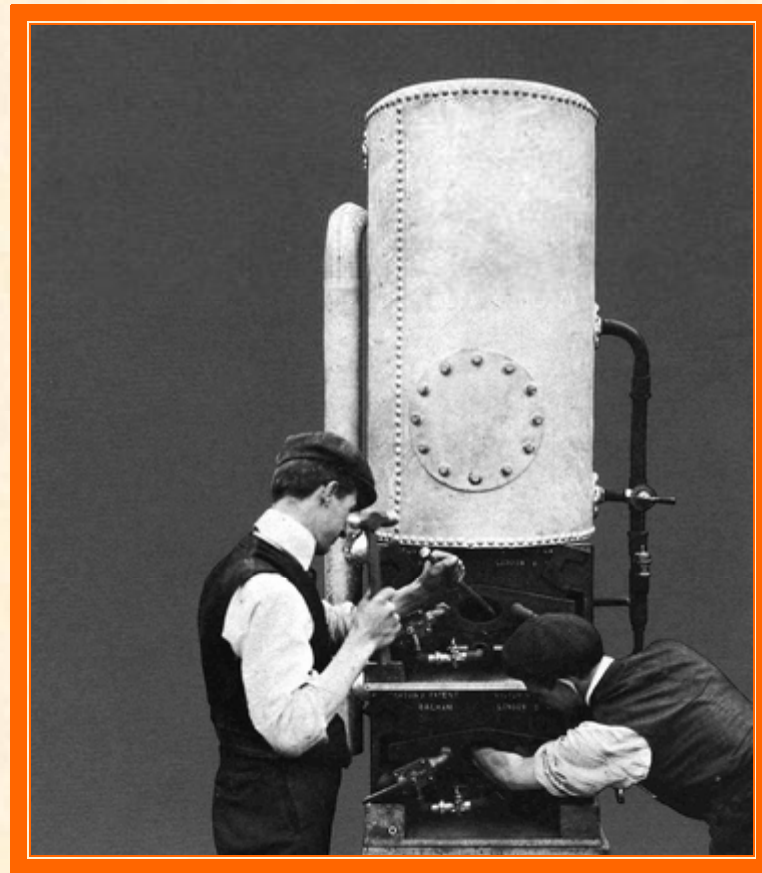
Drawing from his book of 1834

# THOMAS POTTERTON, 1847-1926

English engineer and businessman who in 1894 obtained a patent for improving the efficiency of kitchen ranges and boilers and in 1902 introduced what is claimed as the world's first gas boiler for central heating using town's gas. In 1897 he was a founding member of the IHVE. His factory was in Balham not far from the present Headquarters of the CIBSE.



Mr & Mrs Thomas Potterton in 1880



Servicing a Potterton Boiler in 1907





## ENGLISH HERITAGE

**English Heritage is the Government's statutory adviser on the historic environment. We are an executive Non-Departmental Public Body sponsored by the Department for Culture, Media and Sport. Our principal powers and responsibilities are set out in the National Heritage Act (1983).**

**The Building services Engineering and Safety Team (BsEST) is part of the National Collections Group who are responsible for the stewardship of English Heritage's collections of buildings, artefacts and archives, for their presentation and interpretation and for the maximisation of their commercial potential.**

**BsEST provides advice on how historic property owners, managers and custodians can reuse, replace or refurbish their building services and improve energy efficiency and control energy use as well as on health and safety, security management, fire engineering and emergency planning.**

**BsEST and EH are proud to be the sponsors of the CIBSE Heritage Group 2015 calendar.**

**[www.english-heritage.org.uk](http://www.english-heritage.org.uk)**

## CIBSE HERITAGE GROUP

**The CIBSE Heritage Group is made up of a number of like minded professionals, many retired, who have spent a lifetime in building services and bring that experience to bear in discovering, analysing and recording the history of this essential aspect of the world we live in. It is the oldest CIBSE Special Interest Group (1973).**

**The heritage website is a substantial resource for historians but also for working architects, designers and engineers amongst many others, particularly those involved in historic projects including building services with which they may not be familiar. By using the website and/or by reference to the Heritage Group members, answers may be found to questions which could otherwise add considerably to the time and thus cost of the project.**