







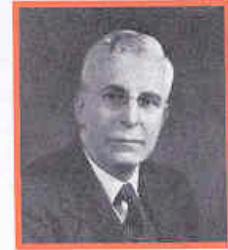
*Newcastle-upon-Tyne  
1930 HVCA Northern Branch, Annual Dinner*

## 1930-1954

The late 1920s and the 1930s saw a number of changes in building engineering services—the increasing use of oil as a fuel for boilers, and the popularity of invisible panel warming using embedded heating coils in floors and walls. There was more use of mechanical ventilation. This period also saw the introduction of air conditioning, firstly in industry and then for comfort applications. Prestige cinemas and theatres were provided with air conditioning, as were the restaurants and public rooms of luxury hotels, but for offices it remained virtually non-existent.

With the outbreak of the Second World War, many HVCA firms became involved in the provision of services for factories, military operations and defence requirements. Others became even more directly involved in the war effort as their factories and workshops were switched to the production of munitions, machine tools, bridges, radar towers, fire pumps and the like.

After the war, the HVCA and its member firms faced up to the challenge of shortages, restrictions and government controls. By 1948, the membership had reached 253. Important issues were fuel economy, education (the National College was established in 1947) and, of course, labour and negotiations. Relations with the unions were good, due in no small measure to the influence of the National Joint Industrial Council. At this time the work of the HVCA encompassed the National Agreement as to Working Rules & Conditions, Jobbing Labour Rates, Daywork Agreements Apprenticeship Agreements for Operatives and for Draughtsmen, as well as the ever-important Standard Conditions of Trading. By the 1950s the building services industry was returning to normal as the reconstruction of London and other war-damaged cities such as Coventry, Bristol, and Plymouth was commenced.



*Harry Walker  
President HVCA 1934-35  
(Henry Walker)*



*W Mumford Bailey  
President HVCA 1937-38  
(Mumford Bailey & Preston)*



*Walter Charles  
President HVCA 1939-41  
(Ashwell & Nesbit)*



*G Nelson Haden  
President HVCA 1941-42  
(G N Haden & Sons)*



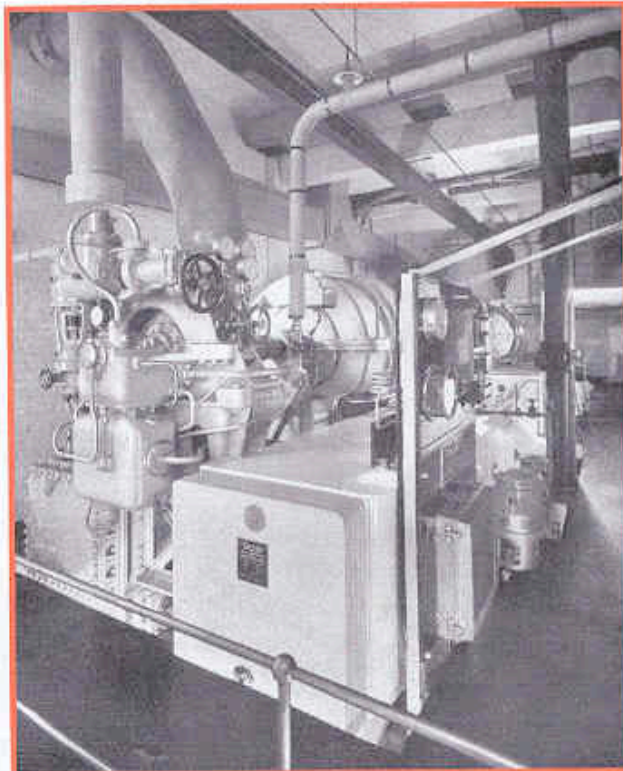
*1930 London Transport  
55 Broadway, London SW1  
(Electric thermal storage heating by  
Richard Crittall)*



*1930 Gamage's Department Store, Oxford Street, London  
(Heating by G N Haden & Sons)*



*1930 SS "Victoria"  
(First air conditioned liner  
by Carrier Engineering)*



*1932 Cumberland Hotel, Marble Arch, London  
(Steam turbine-driven centrifugal chiller for air conditioning  
by Carrier Engineering)*



*1932 Wellcome Research, London  
(Heating and ventilation  
by G N Haden & Sons)*





1932 Shakespeare Memorial Theatre, Stratford-upon-Avon  
(Heating and ventilation by G N Haden & Sons)



1931 Broadcasting House



1932 HVCA Northern Branch Annual Dinner  
Newcastle-upon-Tyne



1930s Performance Guarantee



1934 Shellmex House, Thames Embankment, London  
(Under-window concealed radiant panels by Young, Austen & Young)



1934 "The Fitter" ceiling panel Henry Florence Hall, Royal Institute of British Architects, London  
(Heating by G N Haden & Sons)



*1935 Model cake  
Hongkong & Shanghai Bank*



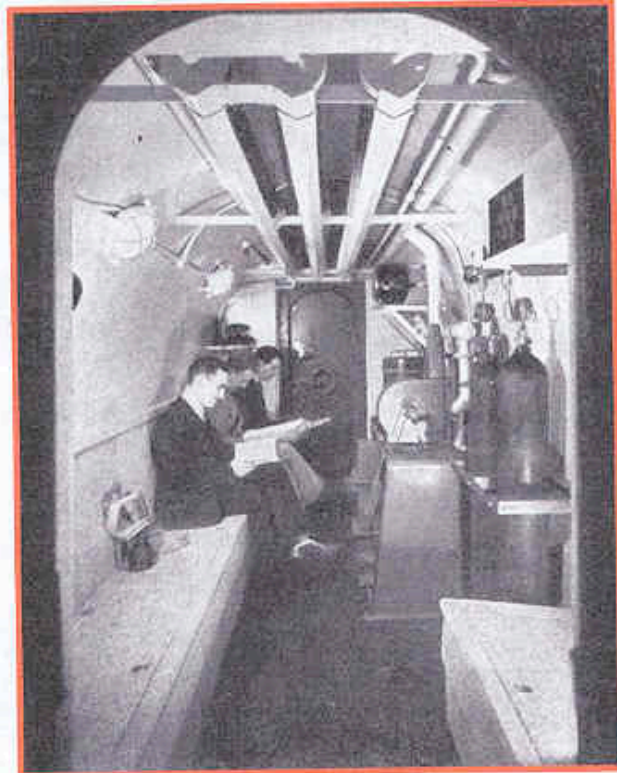
*1936 Hongkong and Shanghai Bank, Hong Kong  
(Air conditioning plant by G N Haden & Sons)*



*1935 Midland Bank, Manchester  
(Heating by Brightside)*



*1935-38 C C Ferguson  
Joint Secretary HVCA-IHVE*



*1937 Prototype air raid shelter  
(Ventilation system by Carrier Engineering)*





1938 Joint Council Chamber HVCA-IHVE, 22 Russell Square, London



1937 Bournemouth Baths  
(Swimming pool water heating  
by G N Haden & Sons)



1938 Warner Theatre, Leicester Square, London  
(Air conditioning by Carrier Engineering)



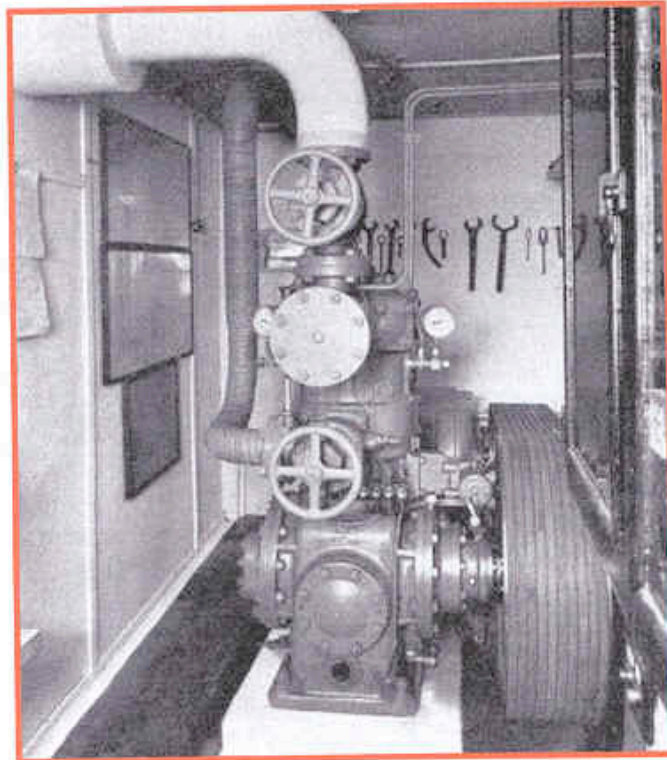
1939 Finsbury Health Centre, London (Oil-fired  
boilers by  
G N Haden & Sons)



A. Anthony Scull  
President HVCA 1944-45  
(Arthur Scull & Son)



*C P How  
President HVCA 1945-46  
(Brightside)*



*1938 Maison Prunier restaurant, St James's Street, London  
(Ammonia refrigeration plant for air conditioning by Sulzer Bros)*

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*Specialists in*

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HOT WATER SUPPLY SYSTEMS  
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AND COMPRESSED AIR SERVICES  
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INVISIBLE PANEL WARMING

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Branch Office at Leeds, Hall St. Cardiff

*1948 Advertisement for Hope's Heating*

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LTD.

*1948 Advertisement for Rosser & Russell*

**METRO CINEMA**

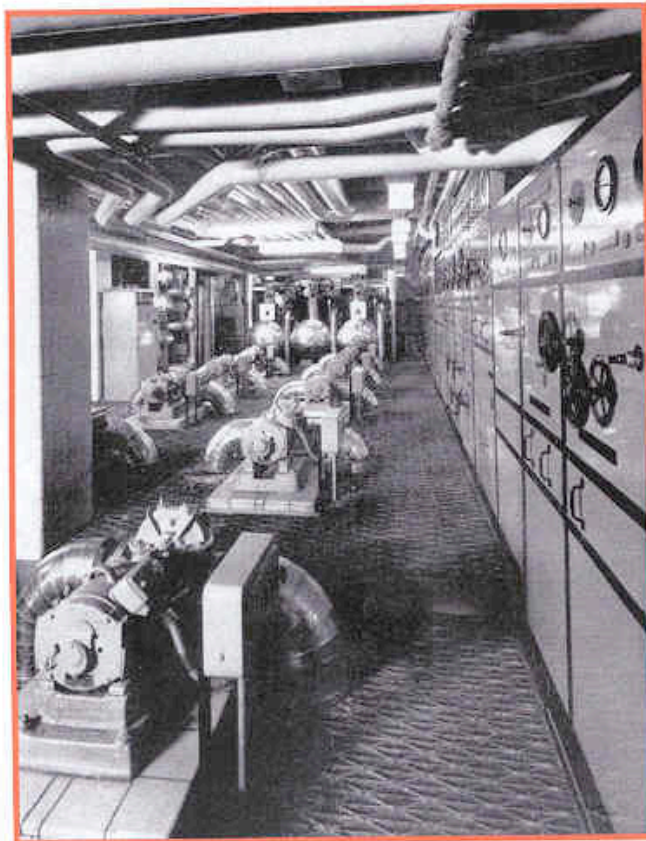
JUNE 8th      Inaugural Programme      1938

*1938 Metro Cinema, Bombay  
(Air conditioning by Carrier Engineering)*

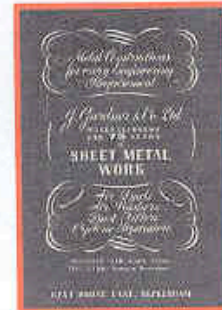




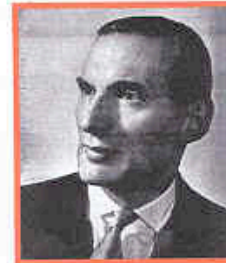
1946 Advertisement for George E. Topholme, Sheffield



1951 House of Commons pump room (Benham & Sons)



1948 J Gardner & Co promotes its services



Colin S K Benham  
President HVCA 1950-51  
(Benham & Sons)



J W Cooling  
President HVCA 1951-52  
(J Jeffreys)



1948 Advertisement for Garton & King