TRAVELLING IN COMFORT

DEVELOPMENT OF HEATING & VENTILATION SYSTEMS FOR ROAD VEHICLES

by Michael Barber MCIBSE

The paper will briefly consider the needs for heating and ventilation of road vehicles, particularly motor cars, and will look at how heating and ventilation systems have developed up to the present generation of mass produced vehicles.

A SHORT HISTORY OF MARINE HEATING VENTILATION & AIR CONDITIONING

by Brian Hickmott FCIBSE

The paper, supplemented with photographs, diagrams etc., will show the development of marine heating, ventilation and air conditioning between the years 1850 and 1975, with special reference to the pioneering work of Alexander William Stewart from 1896 to 1907 culled from the unique documentary records loaned to the author from the archives of the late Sir Ian Stewart.

THE TRAIN – COMFORTABLE AND CONVENIENT?

by Neville S Billington OBE FCIBSE

Train heating is traced from the foot-warmer and stoves (even open fires) via Baker's high pressure hot water system to steam and electric heating. Ventilation has progressed from the open carriage to drop-lights in, and louveres over, the doors, to the torpedo ventilator, mechanical warm-air ventilation and finally air conditioning. Design was largely empirical and based on land practice. Vehicle testing at Vienna is changing the situation. Heating energy is a significant fraction of total power.

Lavatories and toilets were provided for Royal and private carriages, but not for the general public, who had to use station facilities until the 1870's. The hopper closet, without trap, was, and is, almost universal, though retentive closets are being introduced for reasons of hygiene.

Lighting in trains became necessary when overnight journeys were undertaken. Primitive oil lamps gave place to gas (carried in bags or cylinders on the coach), and by the end of the nineteenth century, electric lighting was becoming common.

Although the paper concentrates on British practice, examples from overseas trains are mentioned.

1987 Travelling In Comfort
CHRISTMAS FARE – FOOD FOR THOUGHT FROM THE HERITAGE GROUP
1988 HERITAGE GROUP CHRISTMAS LECTURE
BUILDING SERVICES ENGINEERING CENTRE, BALHAM

The CIBSE Heritage Group look forward to celebrating the onset of the festive season with you at their annual Christmas Lecture on December 15 1988.

The theme for this year's talks is the preparation and preservation of food in Victorian times, and in keeping with this subject the evening will end with a Dickensian buffet. The event begins at 6 pm with an opening address by Colin Izzard, Senior Vice President of the Institution, and will conclude with a demonstration of the futuristic induction hob which will be available soon on the domestic market.

Prospective delegates should note that the technical content of papers has been geared to make this a social evening and that colleagues and partners of members would be most welcome.

PROGRAMME

5.30 onwards Registration/Coffee
6.00 Opening Address by Colin Izzard, Senior Vice President
6.10 'The Development of Food Preservation by Low Temperatures' – A J Cooper CEng MIMechE, MInstR.
6.50 'The Development of Refrigerated Food Transport' – Dr G R Scrine of the Ship Owners Refrigerated Cargo Research Association
7.30 'A Flavour of Cooking Through the Ages' – Mrs Jenny Webb – National Home Economist at the Electricity Council
8.10 Demonstration and Buffet
9.30 Carriages

If you would like to join us on this occasion please complete the form below and return it to: The Members Services Department, CIBSE, 222 Balham High Road, London, SW12 9BS

I/We would like to attend the 1988 CIBSE Heritage Group Christmas Lecture 'Christmas Fare – Food for Thought' on 15 December at the Building Services Engineering Centre, Balham.

Name...................................................
Address ................................................... Signed.........................
................................................... Daytime phone..................

Tickets are £6.00 each + VAT (£0.90p) to members and non-members alike. I enclose/please invoice me for the sum of £.................

(15.12.88)

1988 Food for Thought
1989 Under the Streets
CIBSE HERITAGE GROUP CHRISTMAS LECTURE 1990

JOHN BULL MEETS UNCLE SAM

Date: Wednesday 12 December 1990
Venue: The Building Services Engineering Centre,
Balham, London SW12

Members of the Heritage Group will take a look at some of the personalities and achievements of the pioneers of the building services industry on both sides of the Atlantic and discuss some of the systems and equipment used in years gone by.

Pioneers will include Boswell Reid, Count Rumford, Carrier, Swan, Edison and Otis under the headings:

- Sam meets John
- Good old heating and ventilating
- New fangled cooling
- Electric light and ups and downs
- The Grand Finale

Topics will include ventilation, boilers, the use of natural ice, the development of air conditioning and refrigeration, electric light and the elevator.

Speakers will be Brian Roberts, John Barnes, Neville Billington, Paul Yunnie, Louis Rikker, Mike Barber and Dick Walsingham.

The evening will be opened at 1830 by the Chairman, Tom Smith, Senior Vice-President of CIBSE, and will close with a transatlantic supper.

With caption competition !!!

Use your imagination to devise a use for the elaborate contraption shown attached and win from a selection of fantastic prizes. Special prize for the person who supplies the real use.

Complete the caption and return with the booking form attached to:

The Member Services Department
CIBSE
222 Balham High Road
London SW12 9BS
Tel: 081 675 5211
Fax: 081 675 5449

1990 John Bull meets Uncle Sam
THE BUILDING SERVICES ENGINEERING CENTRE - BALHAM

ROBERTO, WALSINGHAM & BARNDINI

IN THEIR ELECTRIFYING EXTRAORDANZA

"There's No Business Like Show Business"

OR

A REVUE OF BUILDING SERVICES IN THE THEATRE

ACT 1 - ALL THE WORLD'S A STAGE
The great originator Brian Roberto will describe the
story of theatre lighting from Greek to Victorian times

ACT II - IN THE LIMELIGHT
The noted thespian Sir Richard Walsingham will
discourse upon the wonders of the coming of the
electric light and the revolution it created

ACT III - GRAND FINALE
Magic wonders will be described by that
wizard of illusion John Barndini

FOR ONE EVENING ONLY AT 6PM
WEDNESDAY 11 DECEMBER

ADMISSION, TEN POUNDS (£10.00)

1991 There’s No Business like Show Business
COMING SHORTLY

RUBINI

IN HIS GREAT PLAY

BEHEADING A LADY!

THE BUILDING SERVICES ENGINEERING CENTRE

BALHAM

ROBERTO, VALSINGTON & BARNDIN

IN THEIR ELECTRIFYING EXTRAVAGANZA

'There's No Business Like Show Business'

or

A REVUE OF BUILDING SERVICES IN THE THEATRE

WEDNESDAY 11 DECEMBER

PROGRAMME

This building is heated by:

AUTOCONTROL product

for Central Heating and Domestic Hot Water

Precision temperature control

Easy assembly maintenance facilities

High output and efficiency

The 'VERTEX' GAS BOILER

AUTOCONTROL BOILERS LTD

This production was produced by the CIBSE Heritage Group assisted by Mrs Anne Gibbins and the Misses Monica Allen, Carole Hewitt, Karen Phillips and Yvonne Williams of the Member Services Department

1991 There’s No Business like Show Business
TALES OF THE UNEXPECTED

The audience arrive, the stage manager is ready to lock all the exits, unaware of the horrors that are planned for them that evening........

The Macaroni Case and other strange tales

The stage is set. The audience are sitting in their seats waiting with bated breath. The curtains are drawn. A shadowy figure appears on the stage. Wind can be heard all around the stage. Is it a tornado? No. Is it the air conditioning? No. Is it a bean bag gone bust? No. It’s Brian Roberts.

Art and humour in heating

Pauses start to race. The room starts to get hot and sticky until it becomes unbearable. The audience manage to drink the Centre dry. “Could it get hotter?” they ask themselves. Just as people think they are going to fly, over Paul Yennie to turn the radiators off.

Up the cistern

One wonders if the audience could take any more as they are plunged into darkness. They find themselves pushed back by an invisible force-field. Strange sucking noises can be heard. A strange sensation of being pulled can be felt. When they open their eyes they find themselves in the kitchen sink. In the heating John Barnes describe the wonderful uses for the modern-day plumber.

“Thank God You’re here”
Carry On Engineering

Date: 3 December 1992
Venue: Building Services Engineering Centre, London SW12

An evening with the Heritage Group’s CARRY ON team will be an evening you won’t forget in a hurry as they take a light hearted look at the building services industry - as we see ourselves and as others see us.

18.00 Registration & drinkies
18.30 Burns (or whatever) on seats

starring
TOM SMITH
as
"THE CHAIRMAN"

The Macaroni Case
and other strange tales
or
Agony in Air conditioning
with that amazing air-man
BRIAN (wind machine) ROBERTS

Art and Humour in Heating
Bubbling boilers and rattle-licking radiators
by the King of the Heaters
PAUL (I’m too sexy for my radiator) YUNNIE

Up the Cistern (a story of baths and conveniences)
accompanied by his plunger, we bring you that plumbing personality
JOHN (careful where you put that pipe, young man) BARNES

A few words by
DAVID LUSH
(seeing as we! Gibson wasn’t available)
as
"THE SENIOR VICE-PRESIDENT"

The management accept no responsibility for the evenings events

1992 Carry on Engineering
Victorian Palaces of Variety

Date: Thursday 9 December 1993
Venue: Building Services Engineering Centre, Balham, London SW12
Time: 6.30pm

The Politicians’ Palace
Brian Roberts
The story of the Palace of Westminster and the battles between the architects and ventilators and the Commons and the Lords.

The Painters’ Palace
Ian Stewart
A look at the Glasgow School of Art and the genius of the architect and designer Charles Rennie Mackintosh.

The Peoples’ Palace
John Barnes
How Joseph Paxton designed the prefabricated Great Exhibition Building of 1851 for Hyde Park and how it was later re-erected at Sydenham with a little help from Isambard Kingdom Brunel.

CIBSE Heritage Group Christmas Lecture

1993 Victorian Palaces of Variety
1994 The Bells go down
1995 Are you being served?
1995 Are you being served?
Within these walls
— early building services in prisons and hospitals

6pm for 6.30pm, Wednesday 11 December 1996

The CIBSE Heritage Group Christmas Lecture, co-hosted by the Natural Ventilation Group, at the Building Services Engineering Centre, Balham, London SW12.

Programme

6pm for 6.30pm: Welcome drink

→ →

IN THE CLINK: services in prisons
Brian Roberts, Heritage Group

→ →

GONE WITH THE WIND: a history of natural ventilation
Derek Clements-Croome & Neil Sturrock, Natural Ventilation Group

→ →

WHAT'S UP DOC? Services in hospitals
John Barnes, Heritage Group

→ →

Right: The Surrey House of Correction, circa 1860. The prisoner is operating the crank, a form of hard labour that had to be performed in the solitude of the cell for several hours a day. Also visible are the water closet, handbasin, gaslight, rules and on the floor, possibly, his rolled-up hammock.
1996 Within these Walls

Within these walls

IN THE CLINK........................................BRIAN ROBERTS
services in prisons                      Heritage Group

GONE WITH THE WIND.......................DEREK CLEMENTS-CROOME
A history of natural                  & NEIL STURROCK
ventilation                          Natural Ventilation Group

WHAT'S UP DOC?..............................JOHN BARNES
services in hospitals                Heritage Group

Within these walls

A joint meeting of the CIBSE
Heritage & Natural Ventilation
Groups

Christmas Lecture,
11 December 1996

Exercise yard at Pentonville, 1852

TEN POUNDS REWARD.

Escaped

From the Borough Compter, Southwark, on Monday
Morning, December 9, 1852, between the Hours of
8 and 9 o'clock, CATHARINE GALLOWAY, otherwise
SULLIVAN, otherwise MOORE, 31 years of
age, about 5 feet 6 inches high, rather dark red hair,
light grey eyes, sallow complexion, long visage;
had on when she went away a dark brown stuff gown,
trimmed with red braid, an old chocolate silk huck-
berschief, white apron with pink flowers, white stock-
lings, and an old light cotton shawl; also an old pair
of leather shoes, the hind quarters tied over the instep
with black tape.

The aforesaid is a native of Ireland, and has hitherto
been employed in carrying milk, and occasionally
as a Basket Woman in and about the Borough
Market and Billingsgate.

Whoever will apprehend and lodge her in any of
His Majesty's Gaols, shall receive the above Reward
by applying to the Keeper of the aforesaid Prison.

Borough Compter, Mill Lane,
Tooley Street, December 9, 1852.