LECTURES

Introduction and Lecture SMEATON IN SCOTLAND

by ROLAND PAXTON, Heriot-Watt University

Edinburgh
21st Oct. 1992 6 p.m.
(Tea 5.30 p.m.)
The Royal Society of
Edinburgh,
22/24 George Street
Contact: Dr. Alan Sibbald

(031-455 2472)

Glasgow
12th Nov. 1992 6.15p.m.
(Coffee 5.30 p.m.)
The Royal Scottish
Automobile Club,
Blythswood Square,
Contact: Professor Alec Coull
(041-339 8855, ext. 5200)

THE LIFE-LONG LEARNING OF JOHN SMEATON

by TED RUDDOCK, Edinburgh University

Glasgow 25th Feb. 1993 6.15p.m (Coffee 5.30 p.m.) The Mitchell Library, Level 5, Conference Suite Contact: Professor Alec Coull (041-339 8855, ex. 5200)

Edinburgh
3rd March 1993 6 p.m.
(Tea 5.30 p.m.)
The Royal Society of
Edinburgh. 22/24 George St
Contact: Dr. Alan Sibbald
(031-455 2472)

EXHIBITION

JOHN SMEATON—CIVIL ENGINEER

Edinburgh
5th Oct. to 6th Nov. 1992
Mon. to Fri. 10am - 4pm.
The Scottish Record Office,
West Register House,
Charlotte Square
Contact:
Dr Margaret H. B. Sanderson

(031-556 6585, ext. 2139)

Glasgow 10th Nov. to 31st Dec.1992, Mon. to Sat. 10am—5pm Sunday 11am – 5pm Museum of Transport, Kelvin Hall, Contact: Gordon Masterton (041-204 2511)

VISIT

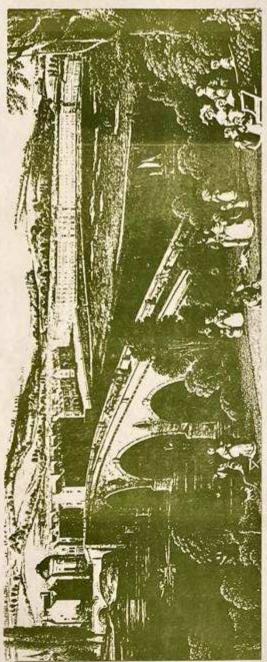
Saturday, 5th JUNE 1993

FORTH & CLYDE
CANAL
including boat trip and
inspection of Luggie
Aqueduct, Kirkintilloch and
PERTH BRIDGE
including an inspection

with the Engineer responsible for its maintenance. Numbers limited. For places, from 5th January, contact Mrs. Sandra Purves (031-556 9242, ext. 295). Approx. cost £10

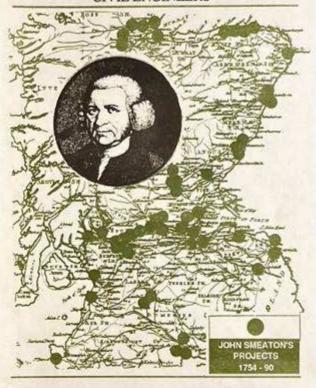
Admission to all events is free except for the Visit.

Printed by: IN-PRINT, 84 Montgomery Street, Edinburgh





THE INSTITUTION OF CIVIL ENGINEERS



JOHN SMEATON F.R.S.

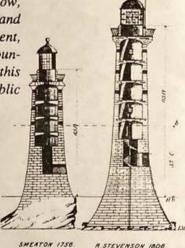
(1724 - 1792)

PROGRAMME OF BICENTENARY EVENTS IN SCOTLAND It is little known that John Smeaton, builder of Eddystone Lighthouse, distinguished engineering scientist, and the English speaking world's first 'Civil Engineer', made a fundamental contribution to the well-being of Scotland during the Industrial Revolution through his harbour, bridge, power, mill-work, canal and river improvements. Of more than fifty such schemes in Scotland, including the Forth & Clyde Ship Canal and Perth Bridge, at least 12 are still making a useful contribution to society after more than two centuries and many are now of outstanding historical and environmental significance. None more so than the Forth & Clyde, Smeaton's largest canal project.

The Institution has taken the opportunity of the bicentenary of Smeaton's death on 28th October to commemorate his life and work, and in Scotland, with the valued partnership of the Scottish Record

Office, the Museum of Transport, Glasgow, British Waterways, and the Roads Department, Tayside Regional Council, has organised this programme of public events.

Smeaton's Eddystone Lighthouse design profoundly influenced that of the Bell Rock Lighthouse which is now the world's oldest isolated rock lighthouse still in use



Organised by the Institution's Panel for Historical Engineering Works in association with the Institution's Archives Panel and Scottish Local Associations.

Contact: Roland Paston 031-449 5111 (ext. 4422)

CARRON CANNON fired at the battle of Waterloo in 1815.

Smeaton advised on Carron Ironworks mills and millwork from 1764-83 and his work included the weir, power source and machinery for boring cannon and cylinders.

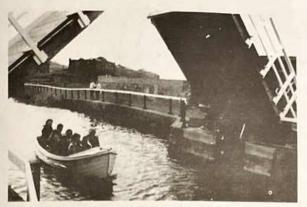




COLDSTREAM BRIDGE 1762-7. Smeaton's first major bridge construction. The base of the left-hand pier, supporting two arches, was built below water level in an open-topped sunken timber box called a caisson. The bridge, sensitively widened in 1960, now carries almost 2m vehicles per annum.



PERTH BRIDGE - Rubble stone sterling protecting a pier base. The stone was packed within the timber cofferdam used to keep out water during construction below water level.



FORTH & CLYDE CANAL - GLASGOW BRANCH — Opening of replacement Bridge, at Old Basin Works, Glasgow 1988. Since then a £3m regeneration of the canal has been carried out by British Waterways with Local Authority support including the replacement of three obstructions to navigation by attractive new bridges to the design of Scott, Wilson, Kirkpatrick, Glasgow.



PETERHEAD HARBOUR from the South Pier, which was rebuilt under Smeaton's directions 1775-81

EYEMOUTH PIER 1767-70
Smeaton's earliest Scottish
harbour construction. The
steeply inclined courses,
which can still be seen,
facilitated building and
this technique was
often used in later
harbour work

