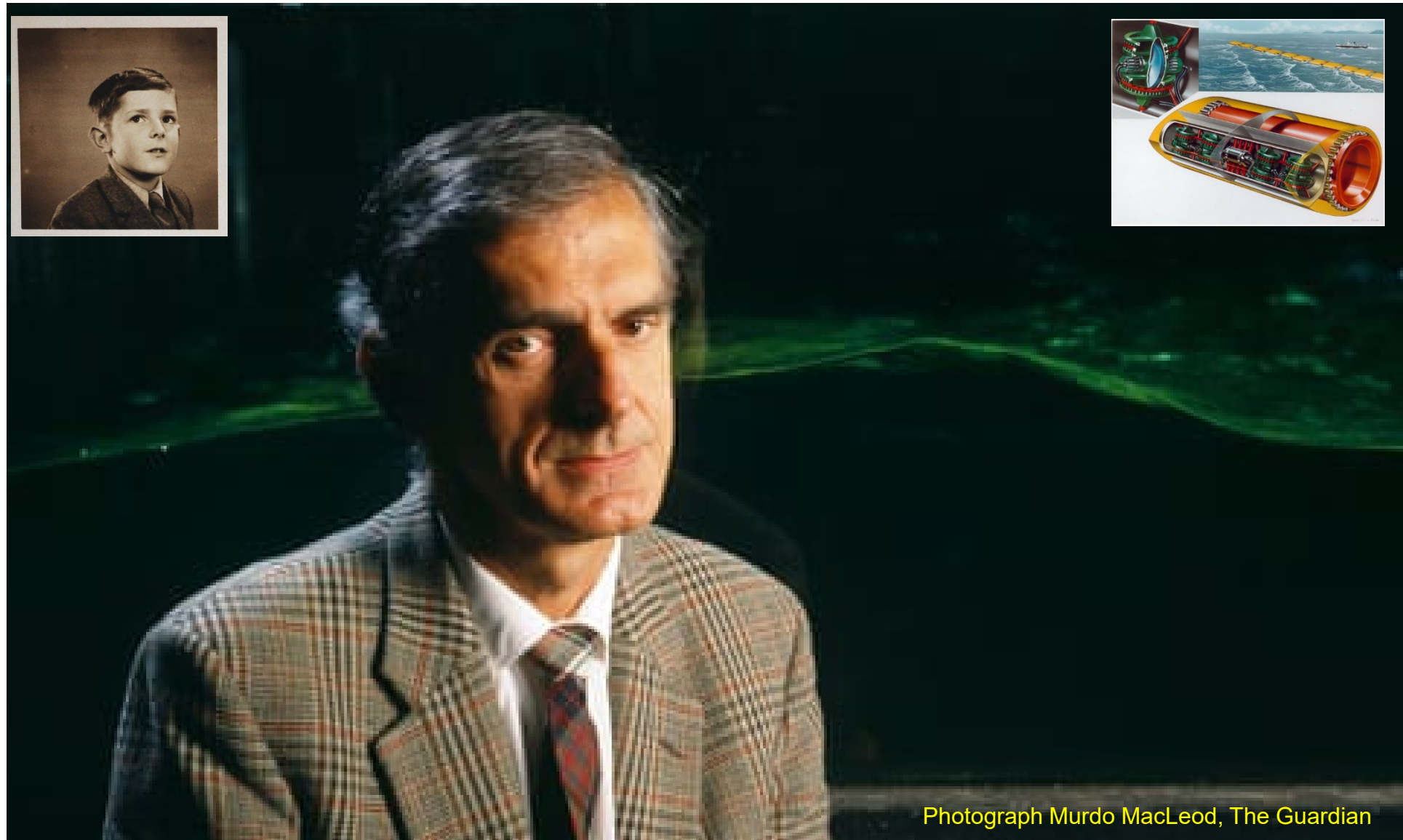
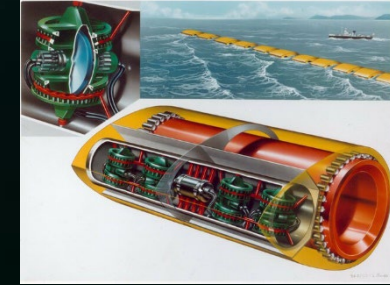




**Tribute to**  
**Professor Stephen Salter MBE FRSE**  
Prof. Alistair Borthwick



Photograph Murdo MacLeod, The Guardian

## Tribute to Stephen Salter

Ally Price, Jamie Taylor, Win Rampen, Brian Sellar, Alistair Borthwick

**First Hovercraft  
Launched 11 June 1959**



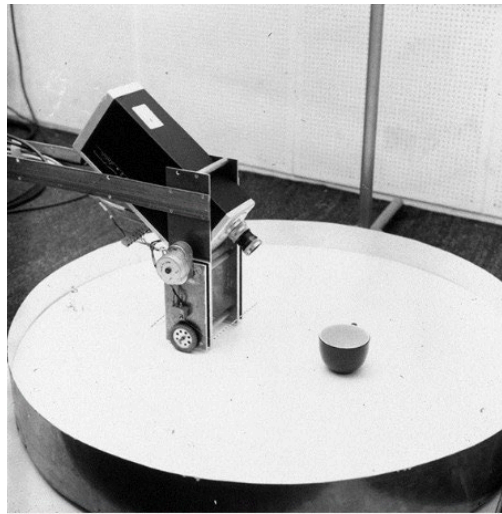
**“The hovercraft shows its  
paces to the French”  
The Sphere, 15th August 1959**

**Black Knight Rocket  
Early 1960s**

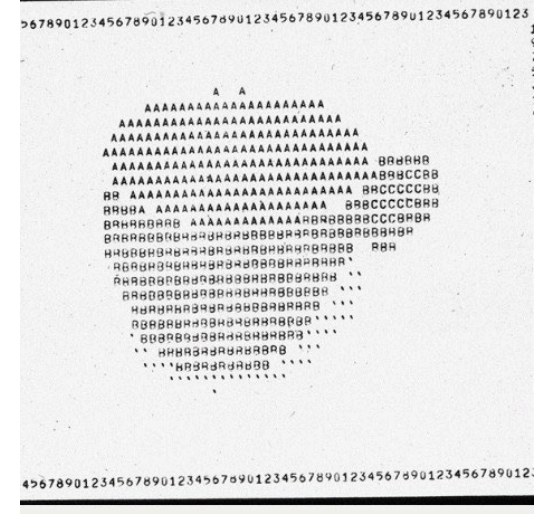


**Two-stage version  
Gaslight Programme 1961-5  
11.6 m high, 6.35 tons**

# Freddy I, 1969-71

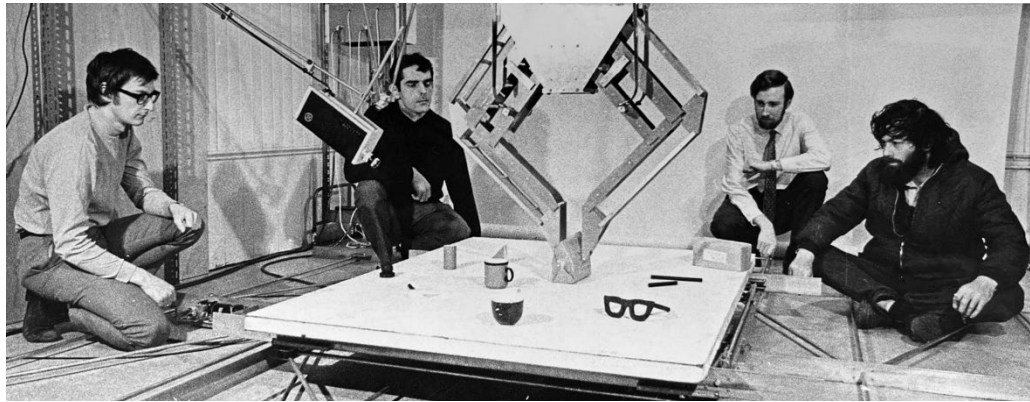


Freddy I identifying a cup. Image © University of Edinburgh



Freddy I identifying a cup. Image © University of Edinburgh

# Freddy II, 1971-76

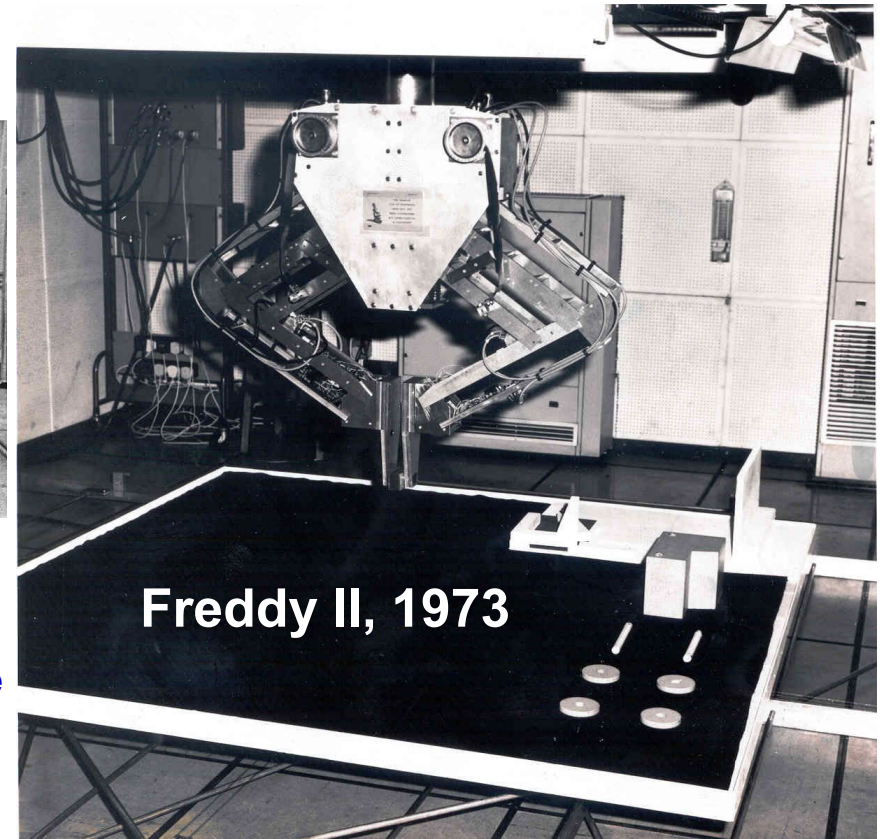


Harry  
Barrow

Stephen  
Salter

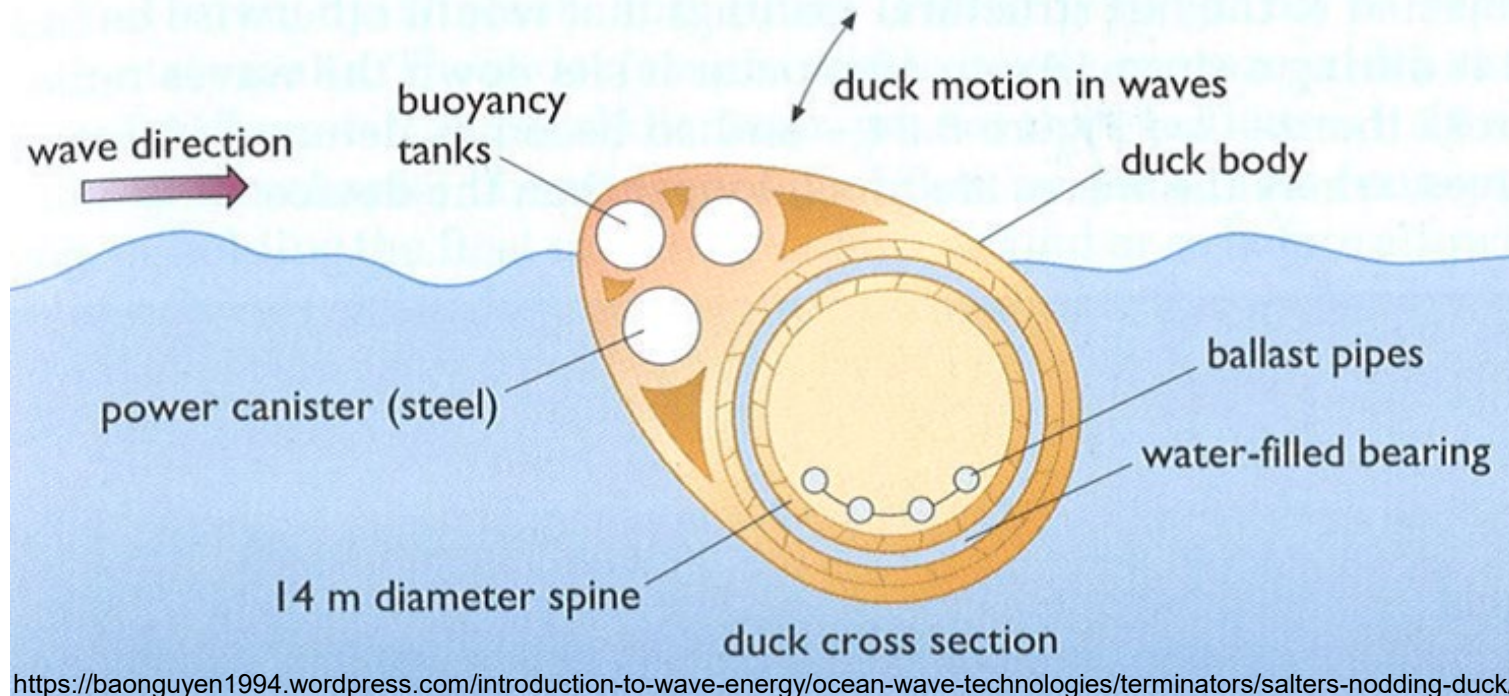
Gregan  
Crawford

Robin  
Popplestone

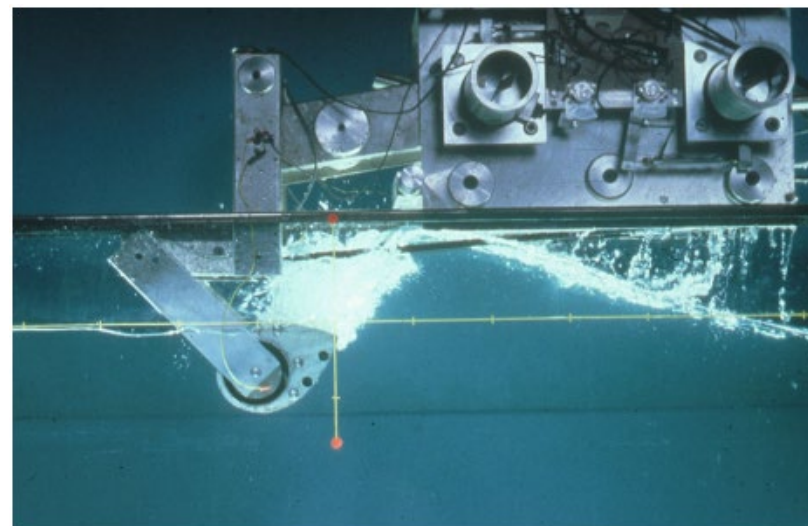


Freddy II, 1973

# Edinburgh Duck, 1974: a wave terminator device ...



Falnes, J. A review of wave-energy extraction.  
*Mar. Struct.* **2007**, *20*, 185–201

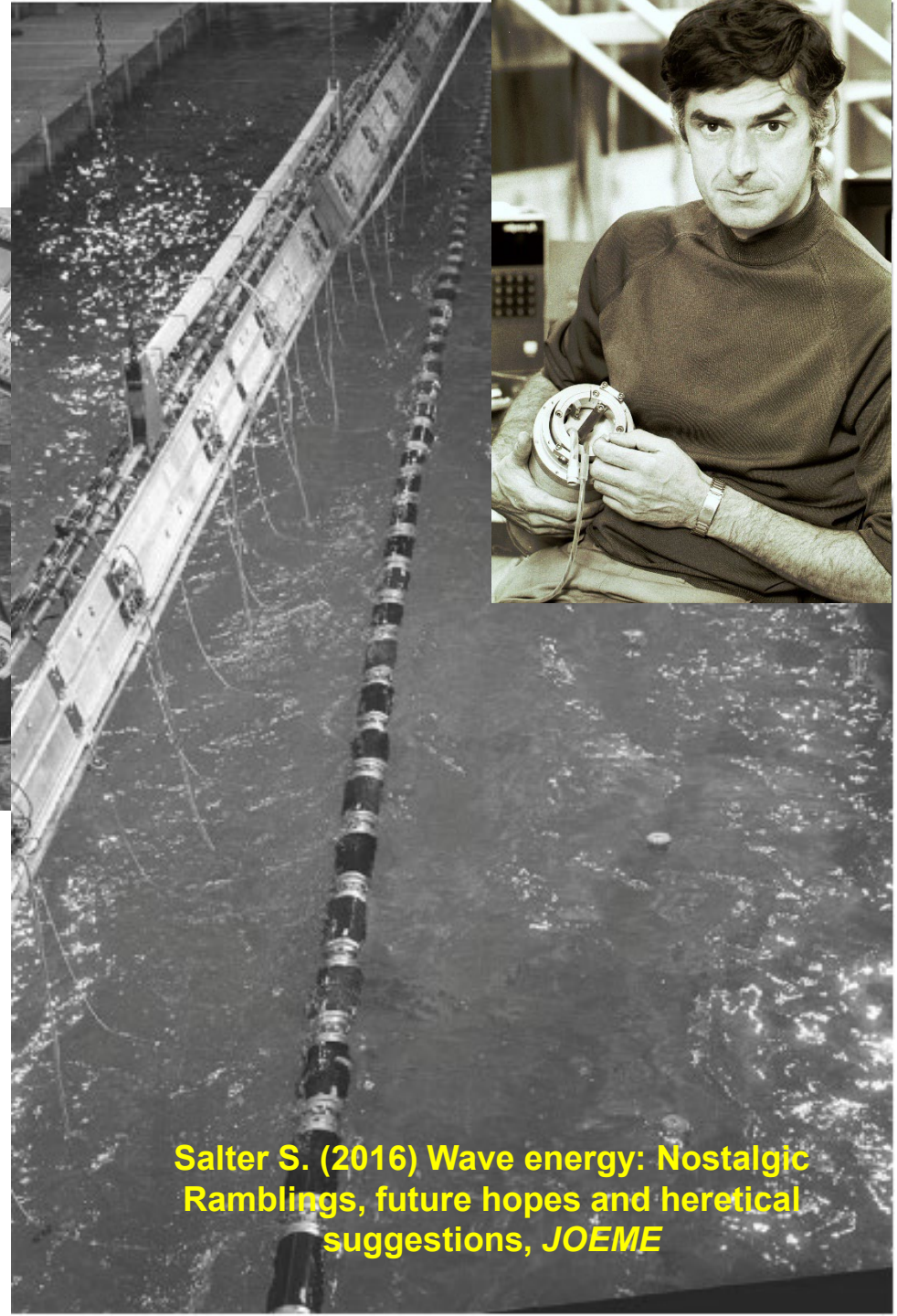


<http://tinyurl.com/saltersduck>

## Long Spine WECs



**David Jeffrey with complete spine model**



**Salter S. (2016) Wave energy: Nostalgic Ramblings, future hopes and heretical suggestions, *JOEME***

# Pelamis Wave Power's Agucadoura Wave Farm, 2008



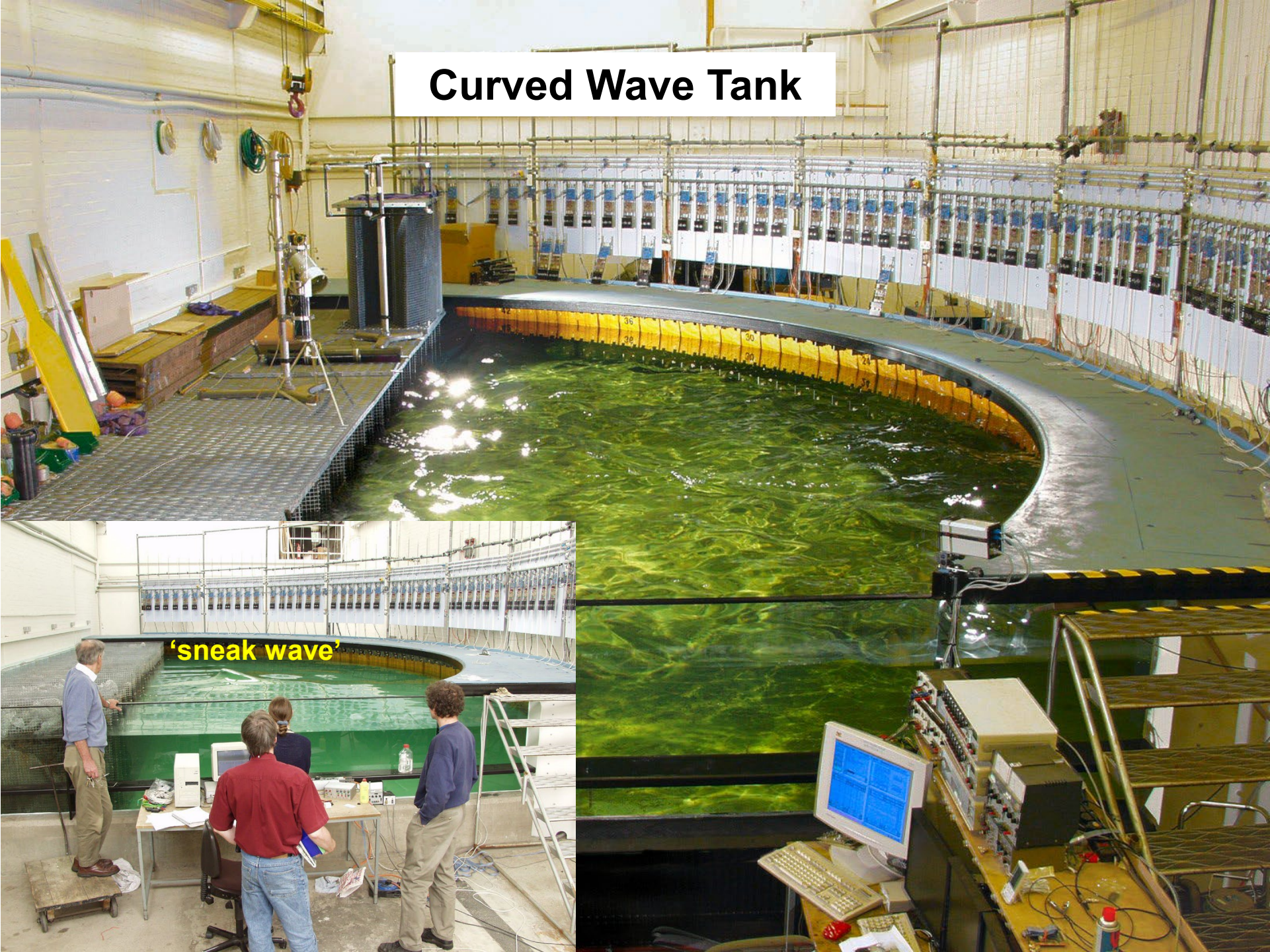
**Pelamis was invented by Richard Yemm, one of  
Stephen Salter's former research students**

# Multidirectional Wave Generator, 1977



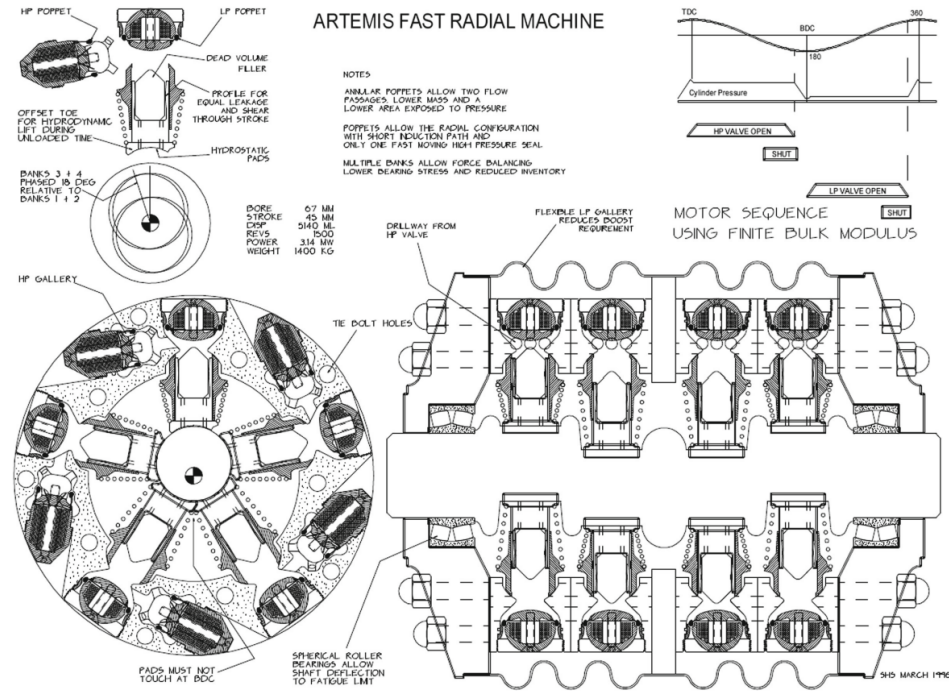


# Curved Wave Tank



'sneak wave'

# Digital Hydraulics ... Fast multi-bank, radial piston machine



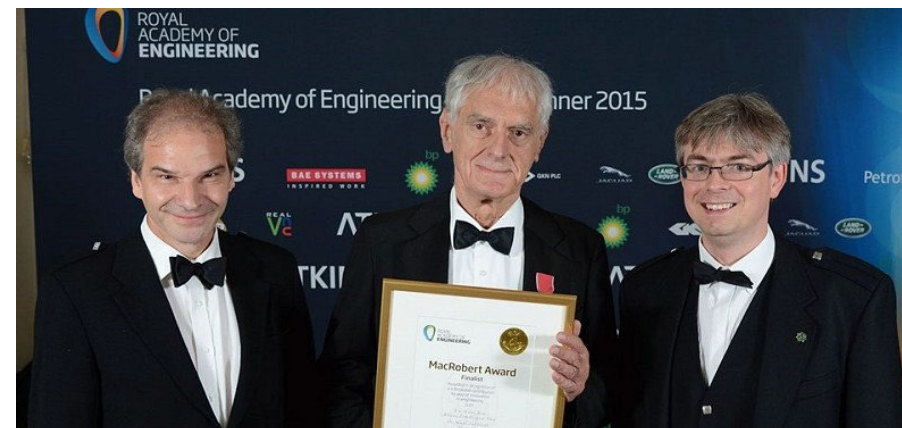
# Artemis Intelligent Power



# Salter and Rampen (1993)



# RAEng MacRobert Award 2015

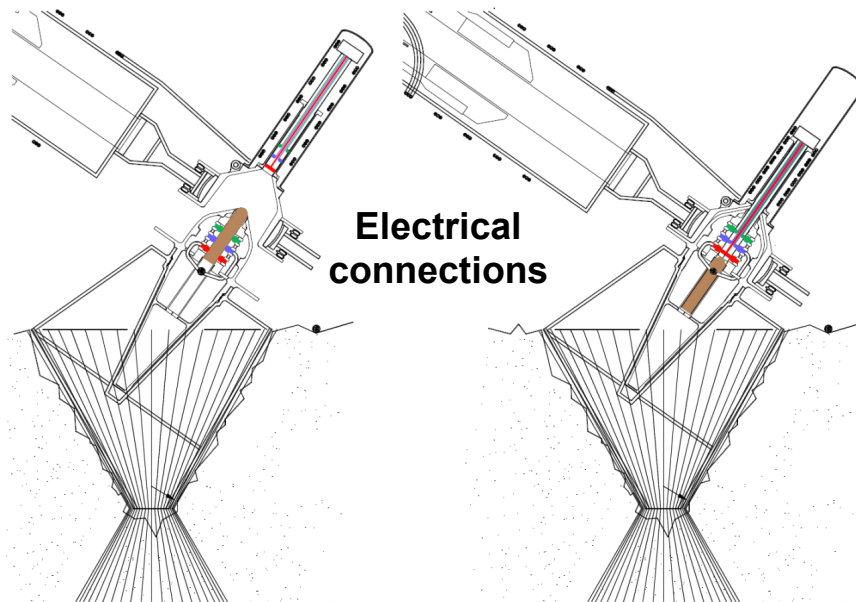
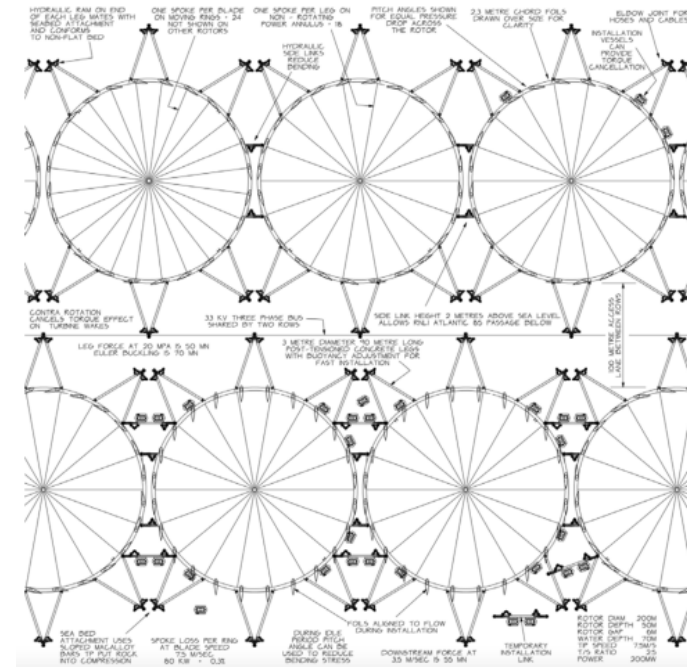
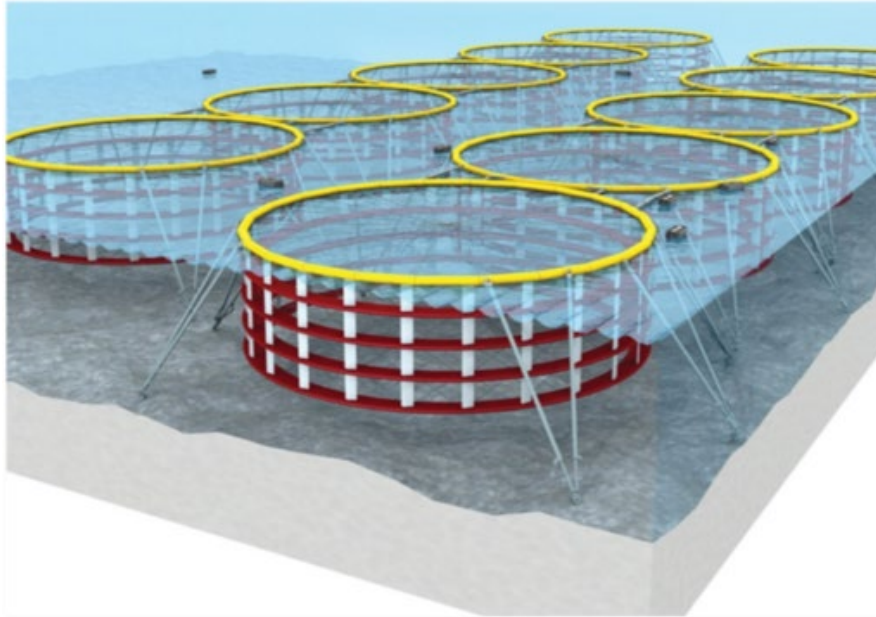


# The Dervish 1996





# Contra-rotating Vertical-axis Current Turbines



**Salter, 1998, 2005, 2009**

**Salter & Taylor, 2013**

# Technical Advisor to Aquamarine Power, 2009

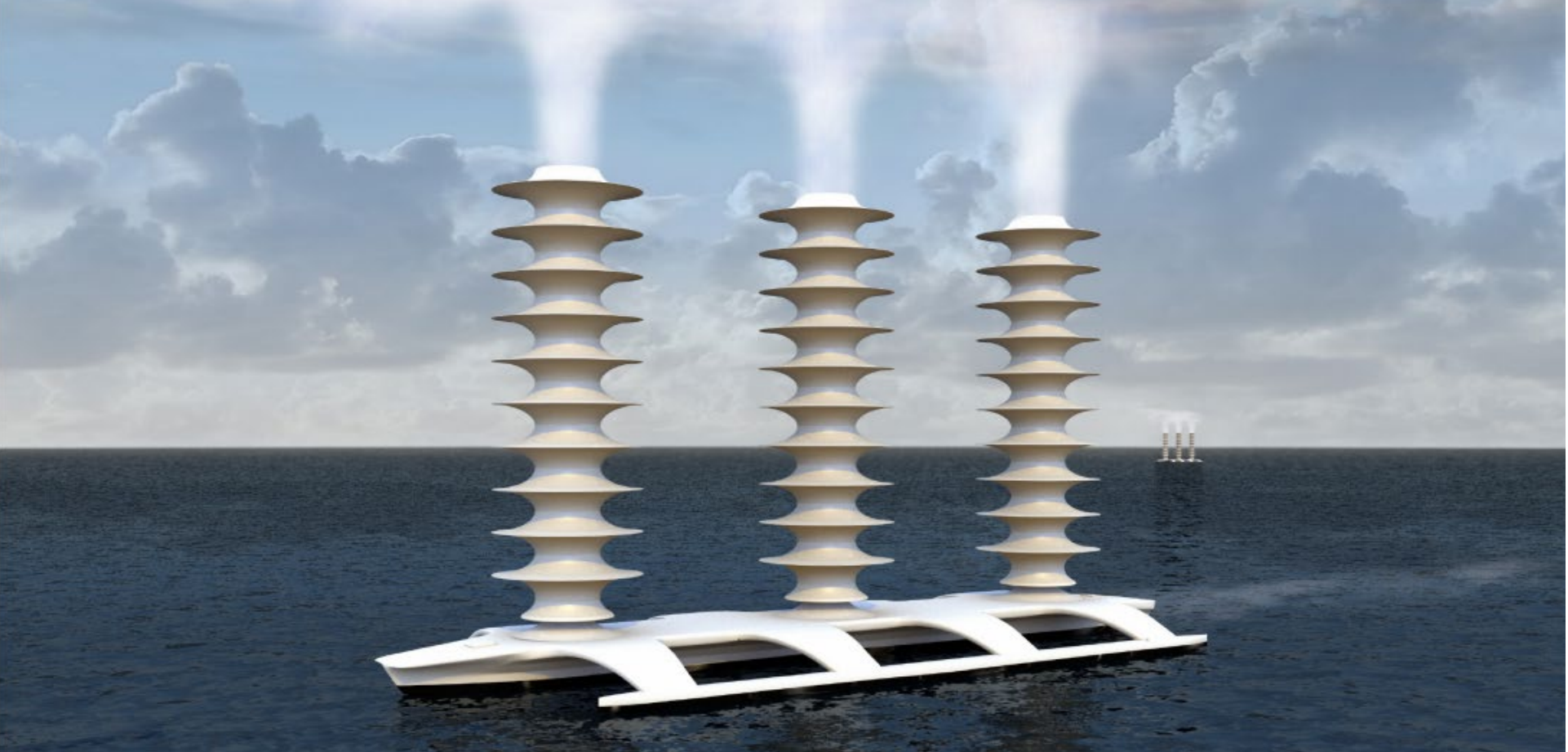
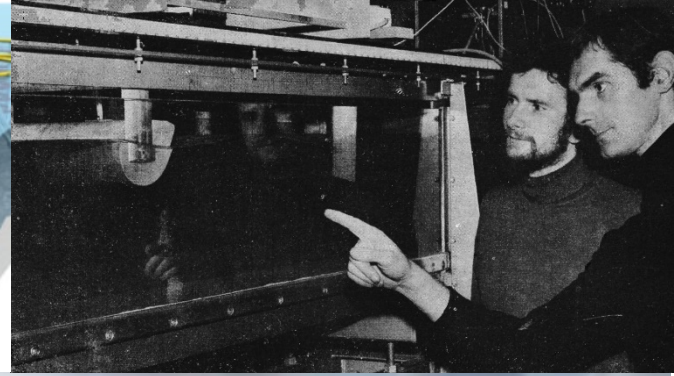
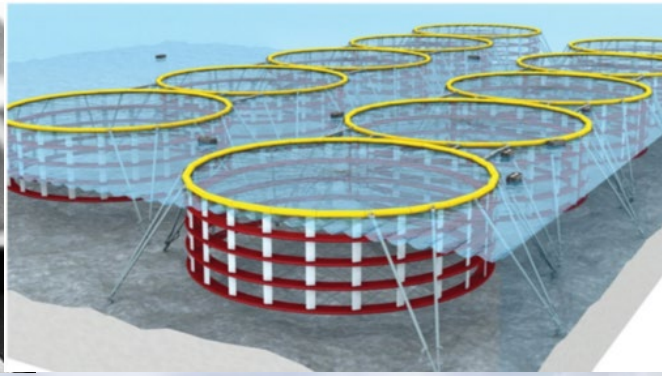
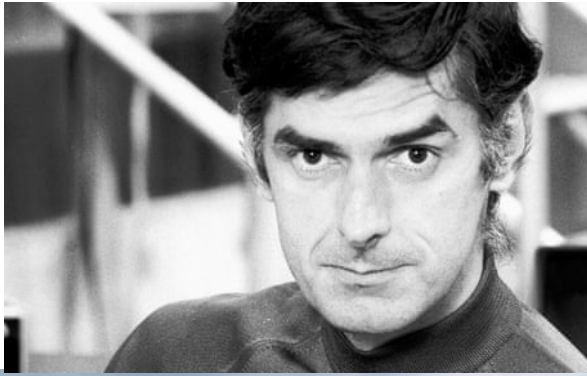
Oyster Device





# Lothian College of Technology, 2024





**Stephen Salter (1938-2024)** Salter / MacNeill 2006