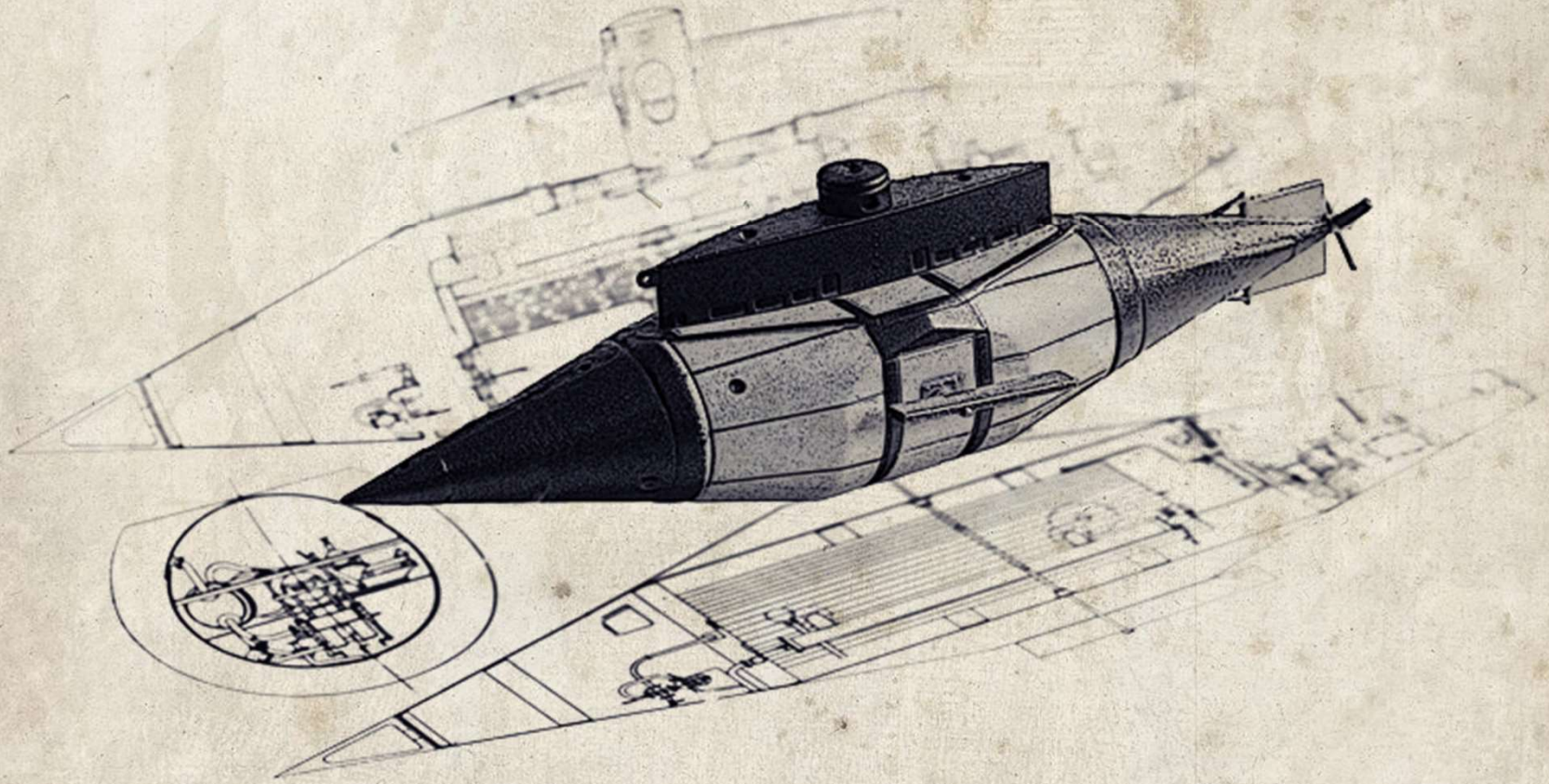


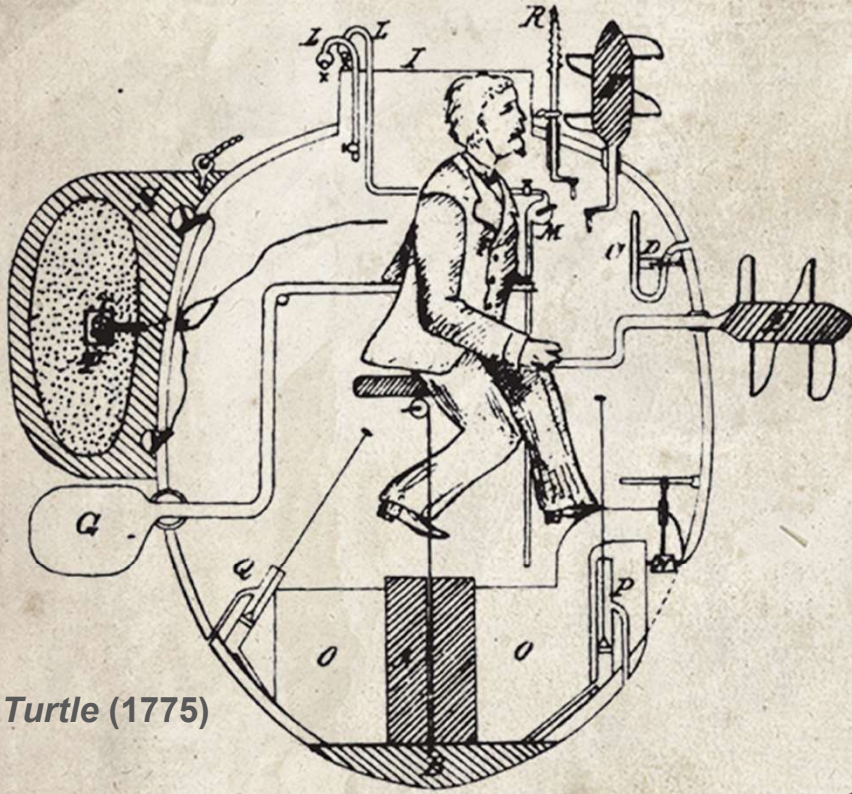
The Archaeological Investigation of the Submarine Resurgam



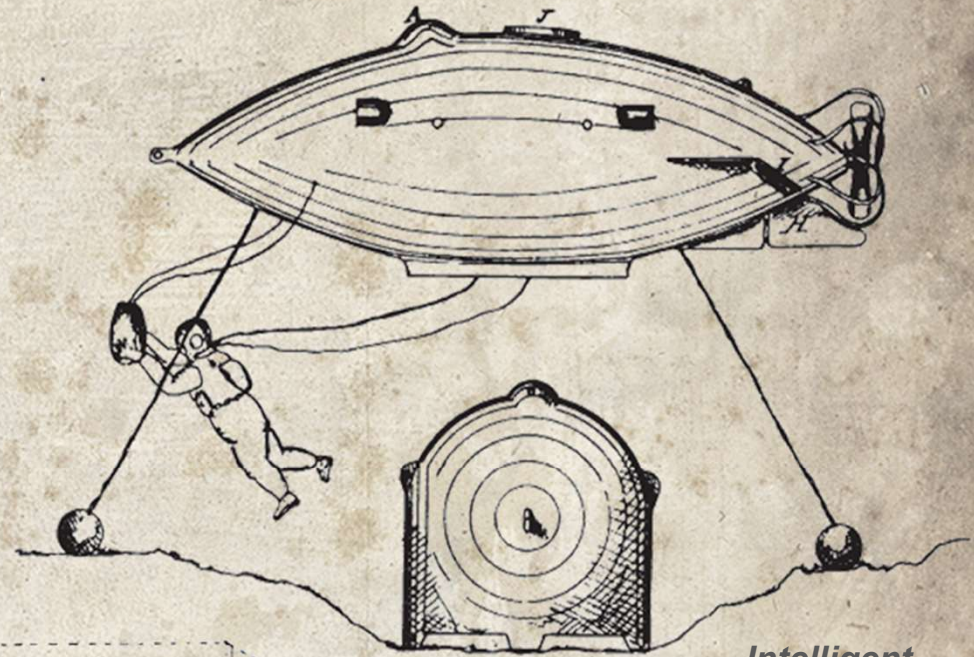
Peter Holt

Director, 3H Consulting Ltd.

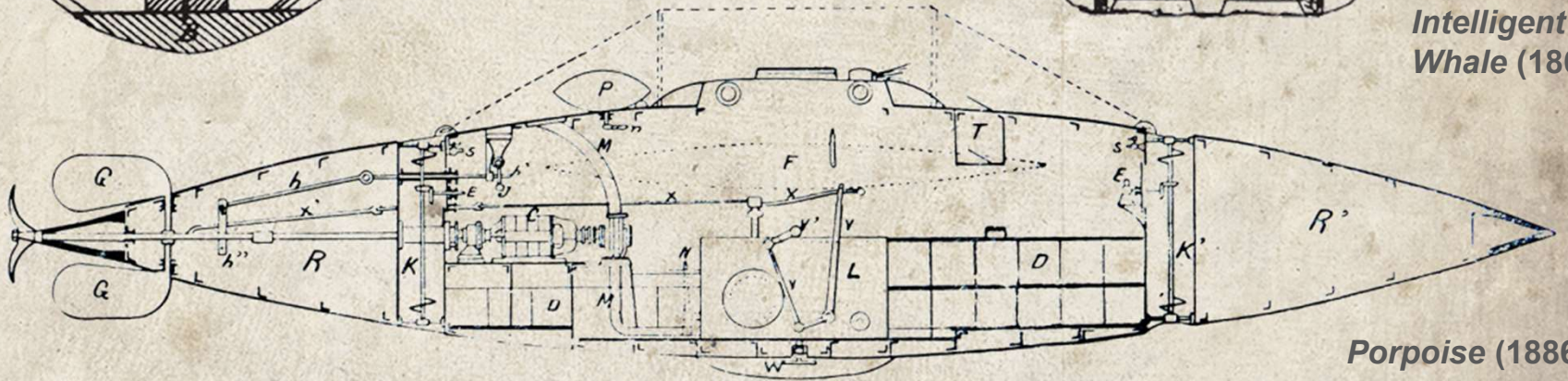
Early Submarines



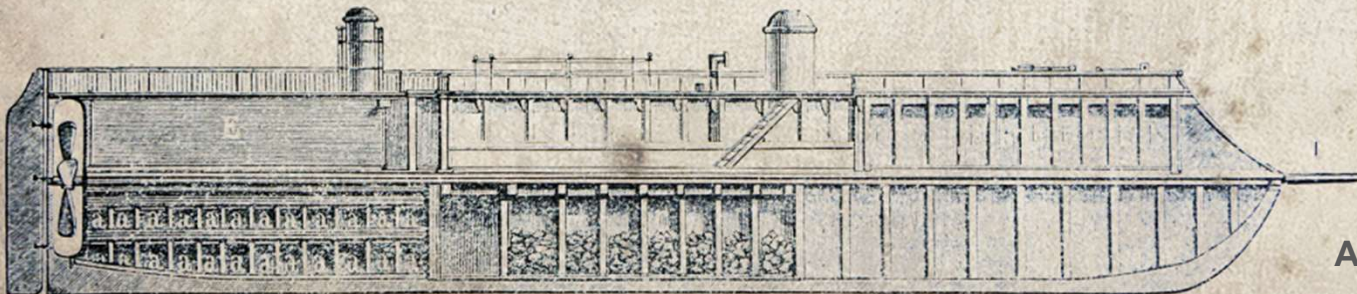
Turtle (1775)



Intelligent Whale (1863)



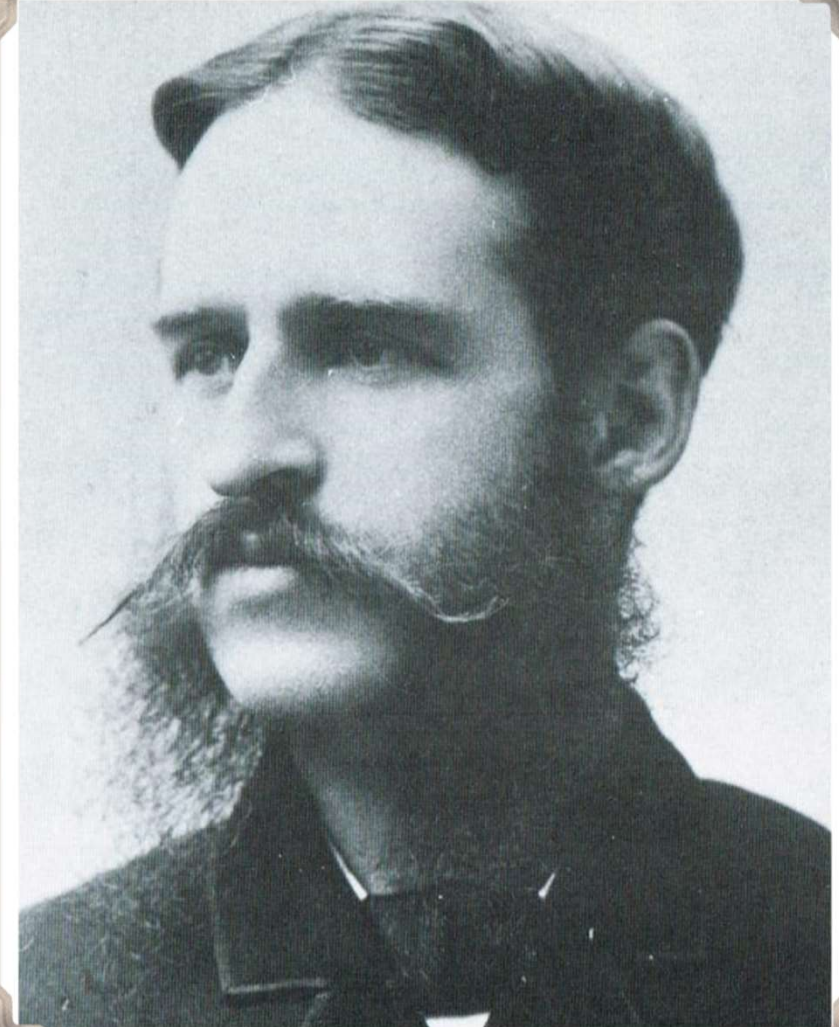
Porpoise (1886)



Alstitt (1863)

George Garrett

1852 - 1902



George W. Garrett

VISITING TUTOR.

B. A., T. C. D., Ire C. T., Govr. Sc. & A. Dep. Eng.

Classics, Mathematics, Science.

466 Lenox Ave.,

New York.

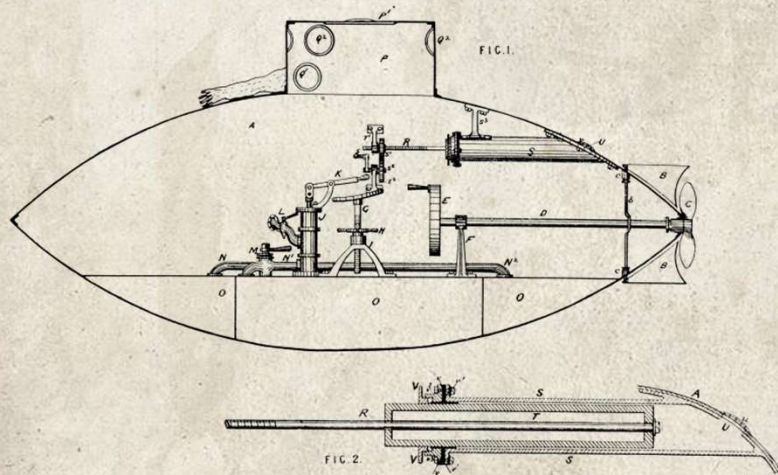
Garrett Submarine Boat

"Resurgam."

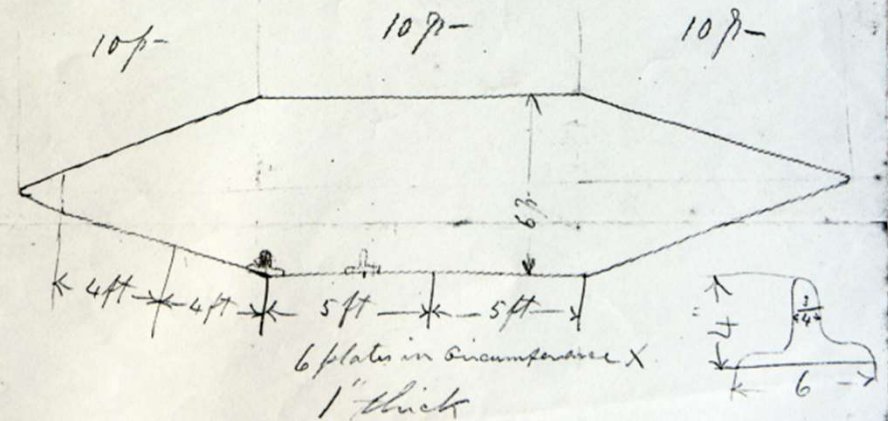
Building Resurgam

April 1879

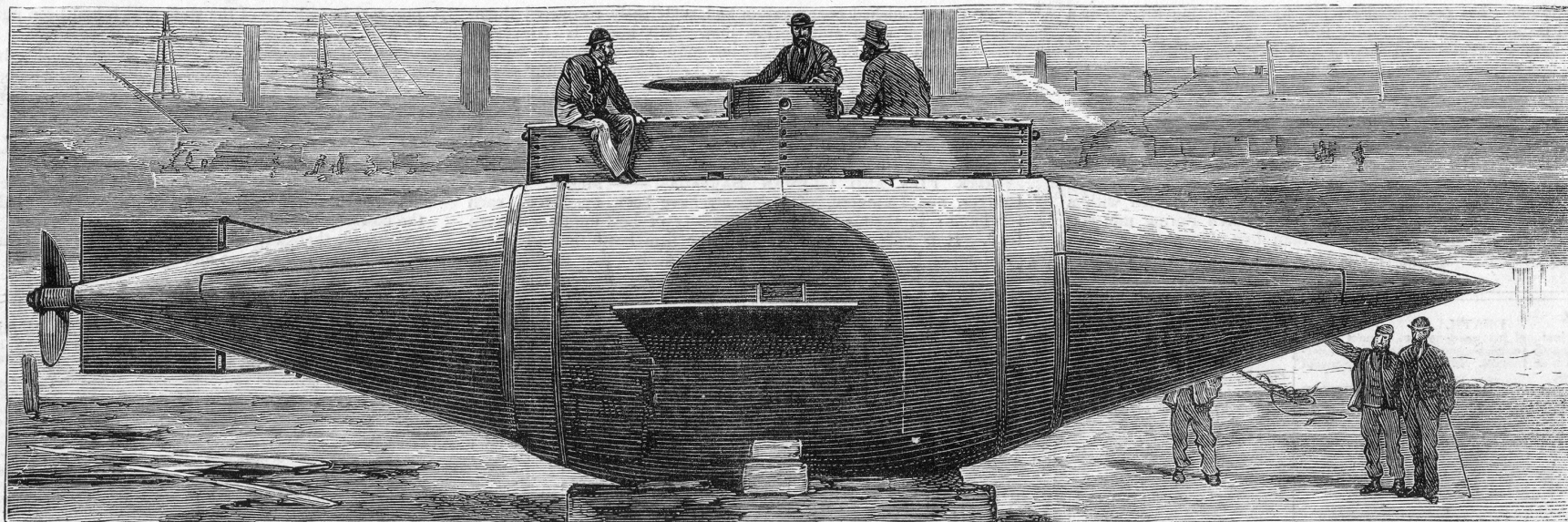
A.D. 1878, May 8. N°1838.
GARRETT'S SPECIFICATION.



(Note) Blocks required for bending T bars

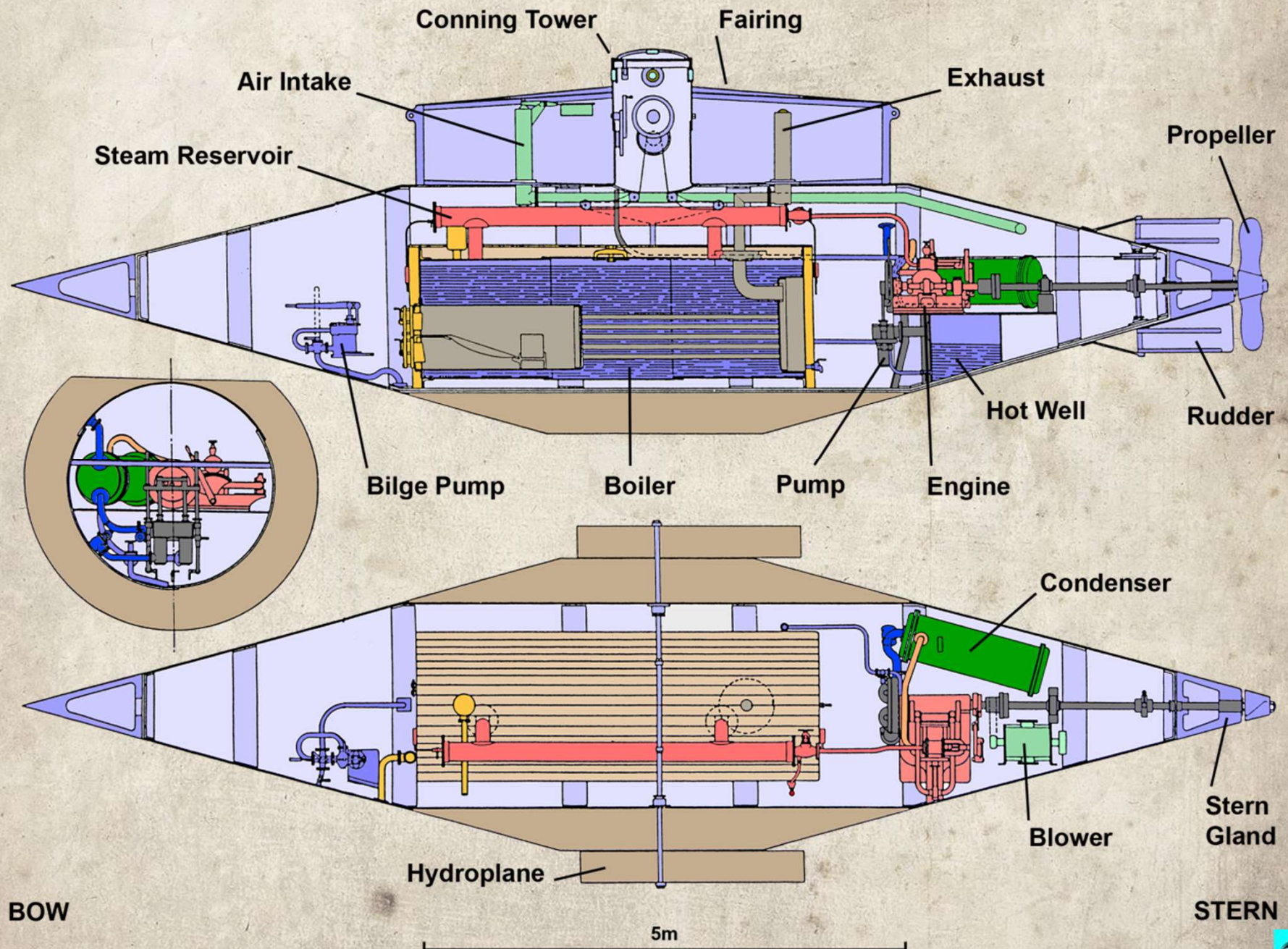


Price about £7- per ton Boiler maker labour



THE GARRETT SUBMARINE TORPEDO BOAT

Construction



Launching

26 November 1879

GARRETT'S SUBMARINE TORPEDO BOAT.

MESSRS. COCHRAN AND CO., BIRKENHEAD, ENGINEERS.



Voyage to Rhyl

10 December 1879

FIRST TRIAL TRIP OF THE GARRETT SUBMARINE TORPEDO BOAT THE RESURGAM.

The Torpedo vessel which visited our harbour on Saturday last and stayed for a few days attracted considerable attention, and many hundreds visited the Voryd and inspected the little craft.



The Loss of Resurgam

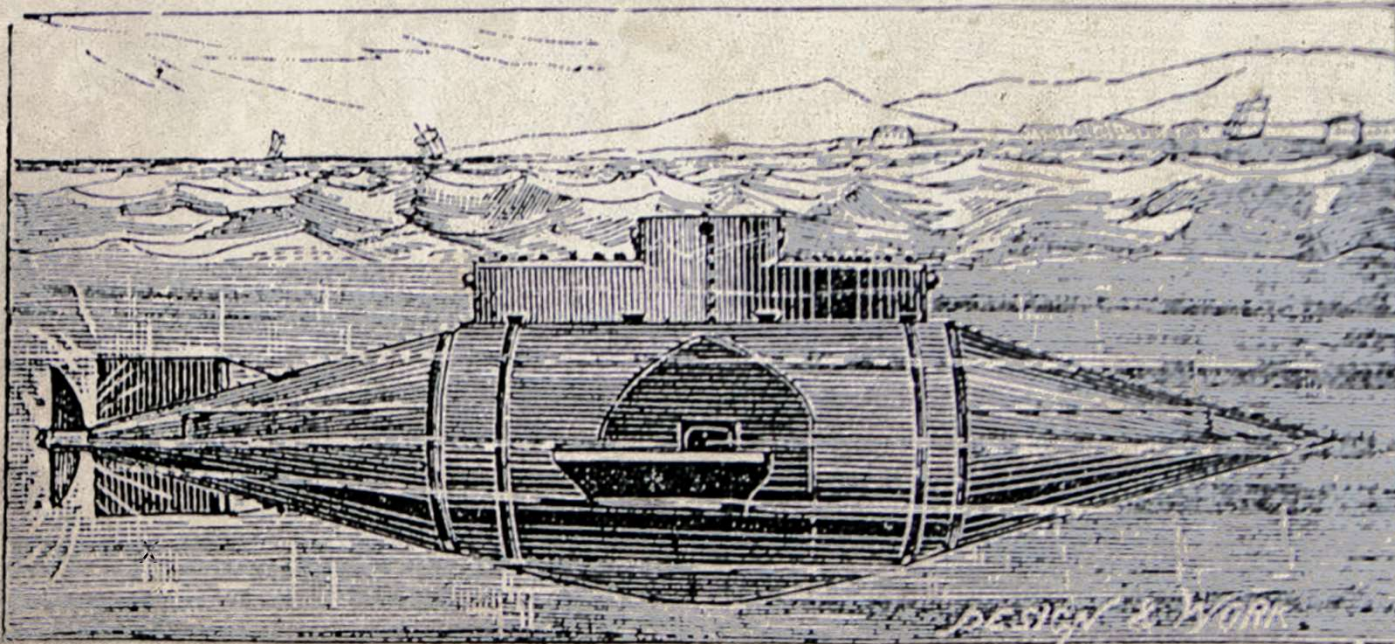
25 February 1880

It was at Rhyl that the voyage ended. No one can say what happened to the Resurgam, for she was missing one evening when the crew came back from enjoying a meal ashore.

Garrett

During that time a gale sprang up, and prevented us from returning to the submarine. We towed her until ten o'clock the following morning, when she broke her hawser, and consequently we lost her.

Price



Resurgam Found!

DAILY POST

THE NORTH WEST'S
AWARD
WINNING
NEWSPAPER

Monday, December 18, 1995

Weather: Cloudy, some rain

Price 1

ANFIELD DELIGHT

Fowler double sinks United

— Pages 28 and 32

FUSS-FREE FASHION — Party-time wear for Christmas — Pages 16

SEABED GIVES UP ITS SECRETS



□ The find of my life: Chester diver Keith Hurley (left), delighted after his historic discovery and (right) the Resurgam as he found her, lying on the seabed



THE wreck of the world's first mechanical submarine, built and launched on Merseyside nearly 120 years ago, has been discovered by chance by a North-west diver.

Chester maritime adventurer Keith Hurley found the wreck of the Resurgam by accident, lying off the North Wales coast — more than 100 years after it was last seen.

Train driver Mr Hurley, from Hoole, discovered the ancient sub, one of the region's most sought after wrecks, by sheer accident as he was diving off the coast

Diver finds historic Mersey sub, unseen for 100 years

By Carl Butler Daily Post Staff

near Rhyl to help a friend. The 45ft-long 30-ton submarine, invented by Victorian corate Rev George Garrett, and built in Cochran in

Burkhead, has been filmed where it sank in 1880.

But the director of the Royal Navy Submarine Museum in Gosport, Commander Jeff Tull, pleaded for calm and caution last night. "The historical importance of Resurgam is very high. It is the first British-designed submarine, and the first mechanical submarine in the world."

"We do not want anyone messing about with it. It is a

Continued on Page 2

Top star to grace turf of Anfield

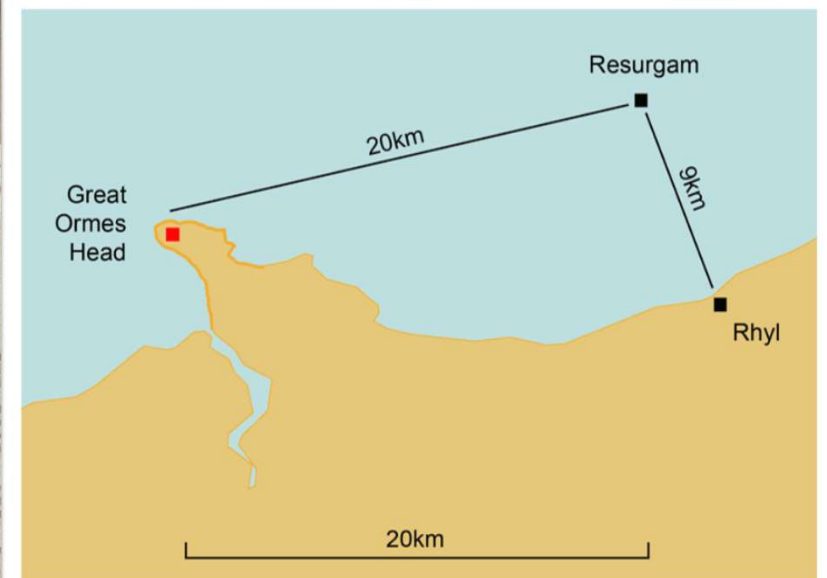
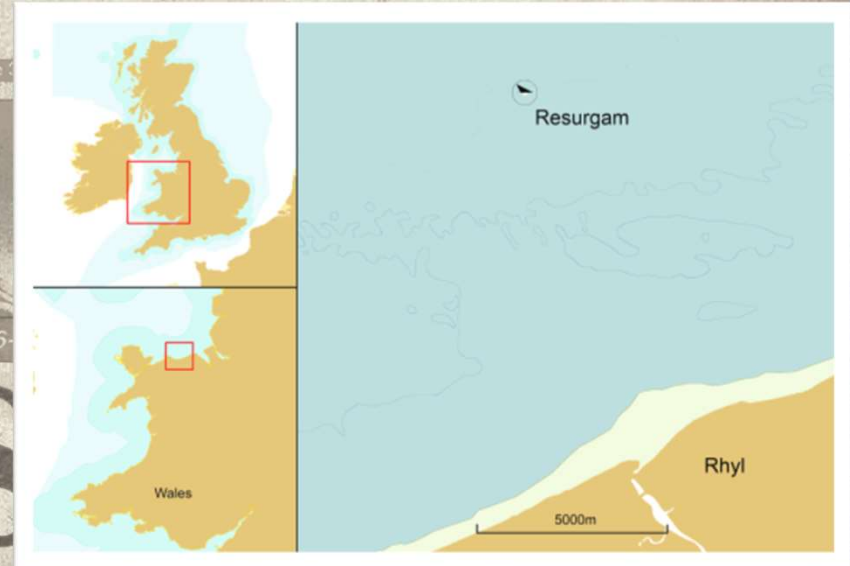
SOME of the world's greatest footballers will be displaying their skill on Merseyside next year. They will be playing at Anfield in the Euro Championships, the for which took place in Birmingham yesterday.

Local soccer fans drooling at the prospect of watching Italy, Germany, Czechs and Russia in the Group B matches.

Peter Garrett, from Football Supporters' Federation, said: "It is a dream — we couldn't ask for more."

"The first match at Anfield will be between Italy and Russia and could prove to be one of the best of the tournament."

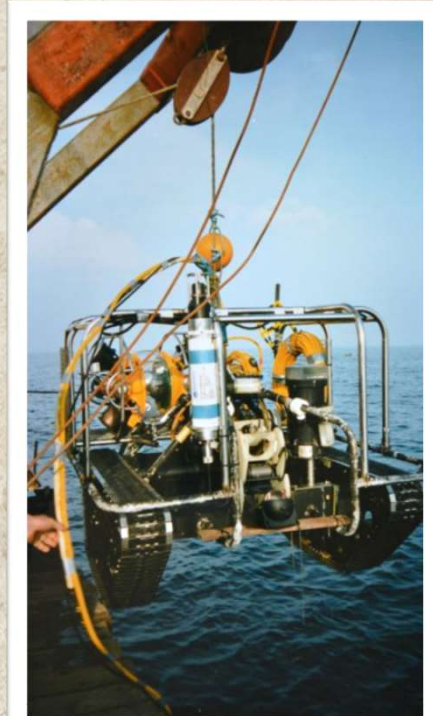
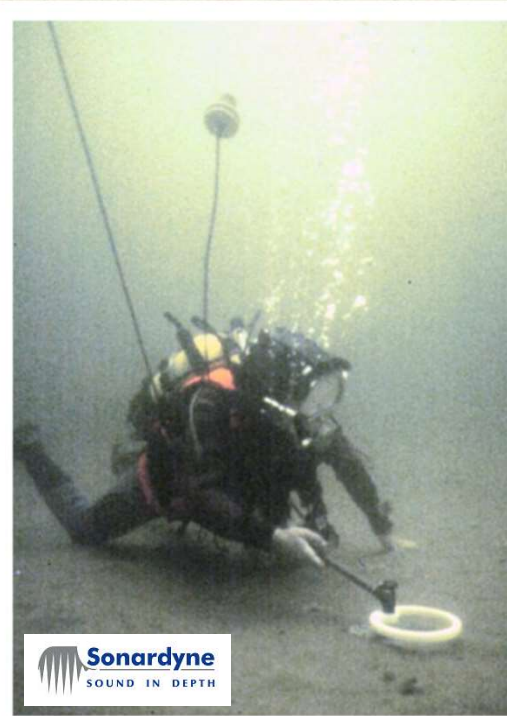
Details — Pages 7 and 27



October 1995

3H
Consulting

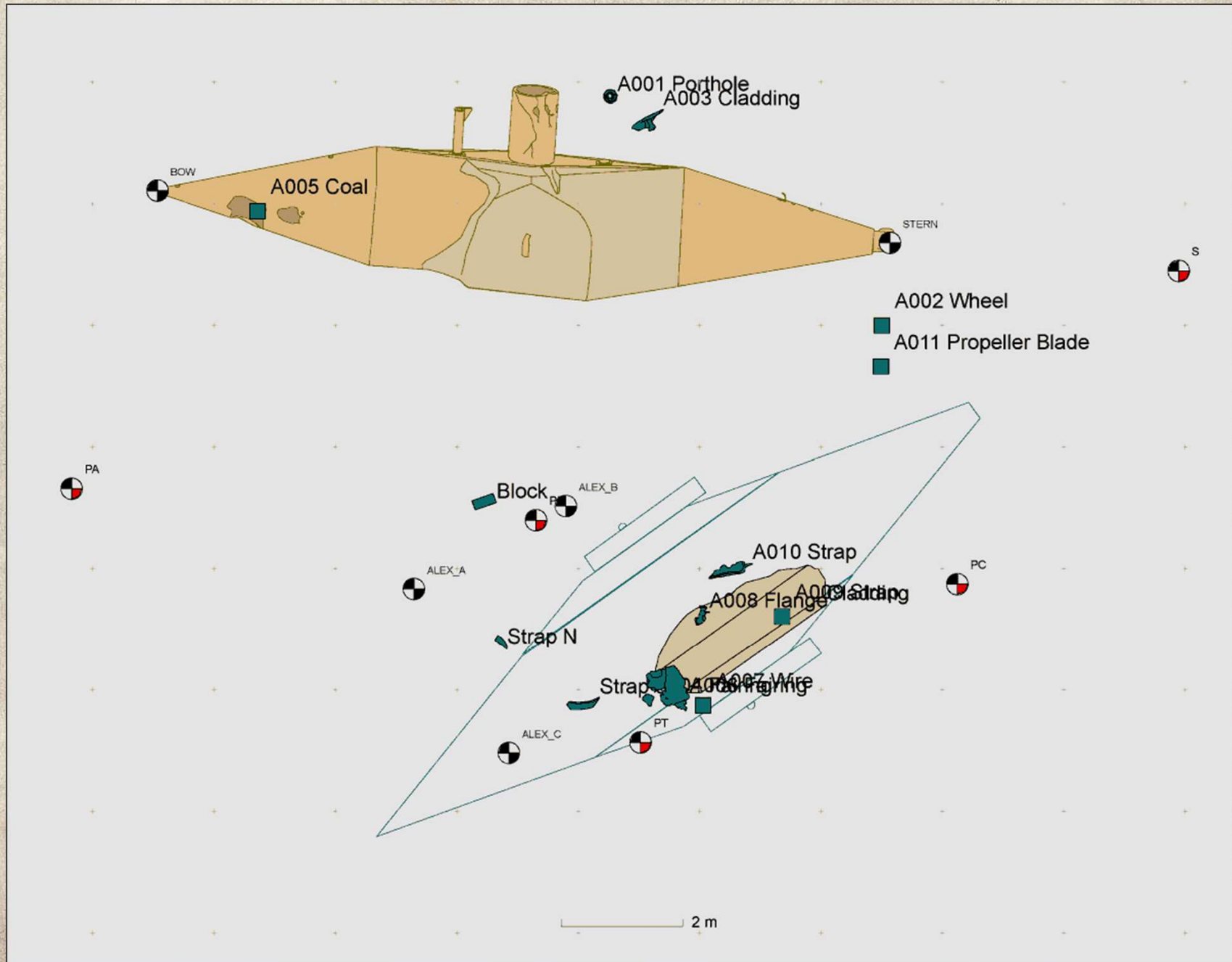
SubMap (1997)



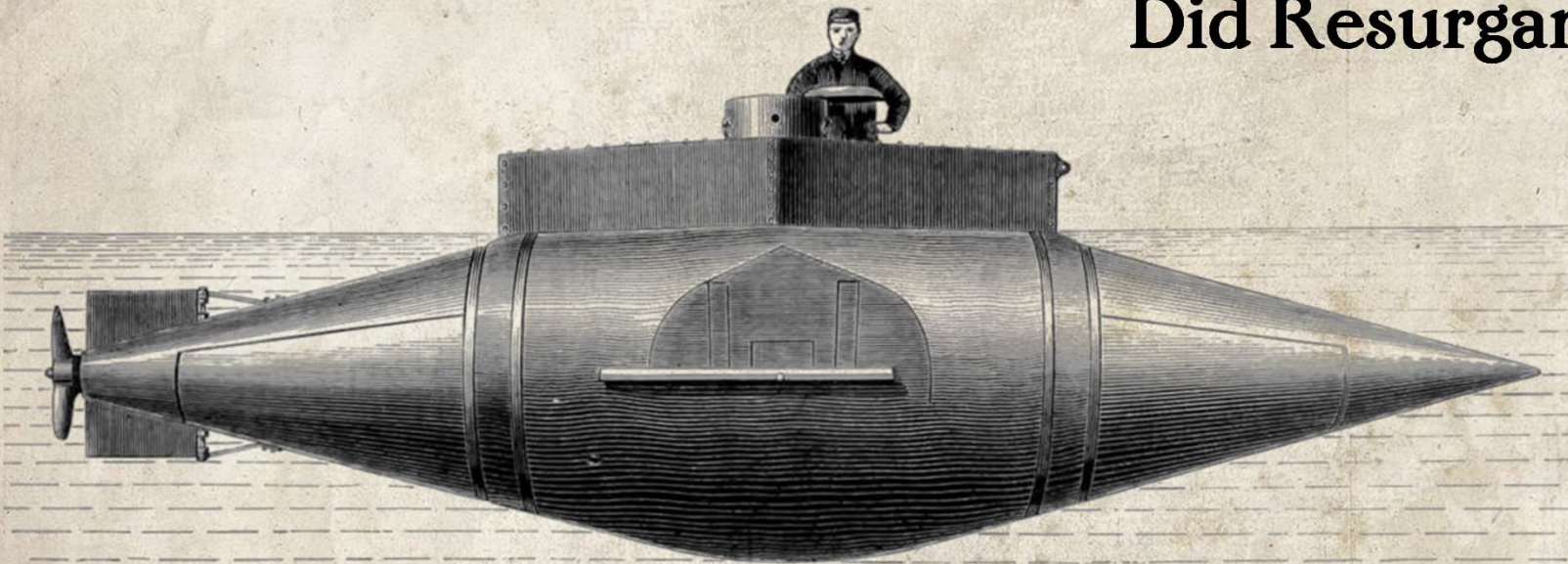
Recording : Survey Team / NAS
 Logging : Peter Holt
 : Peter Holt



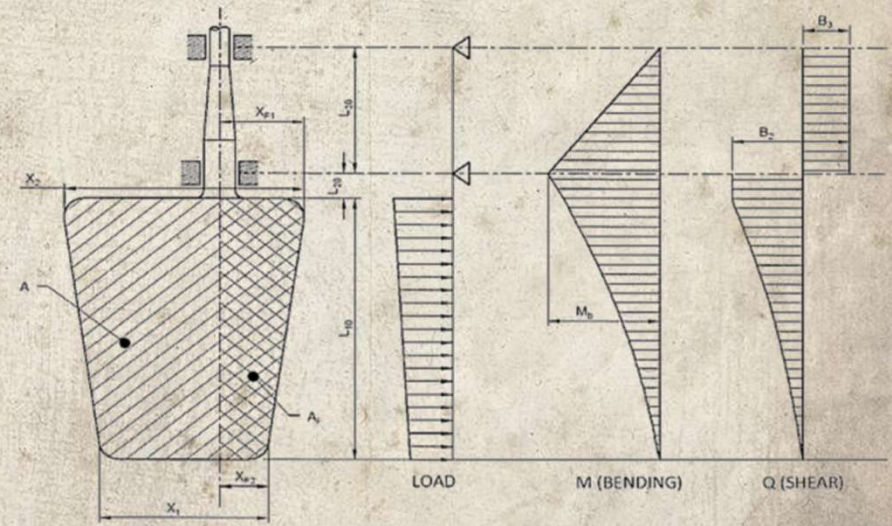
Post-Excavation Research



Did Resurgam Work?



The side rudders for submerging the vessel were worked from the conning tower, but their action was not fully experimented upon.

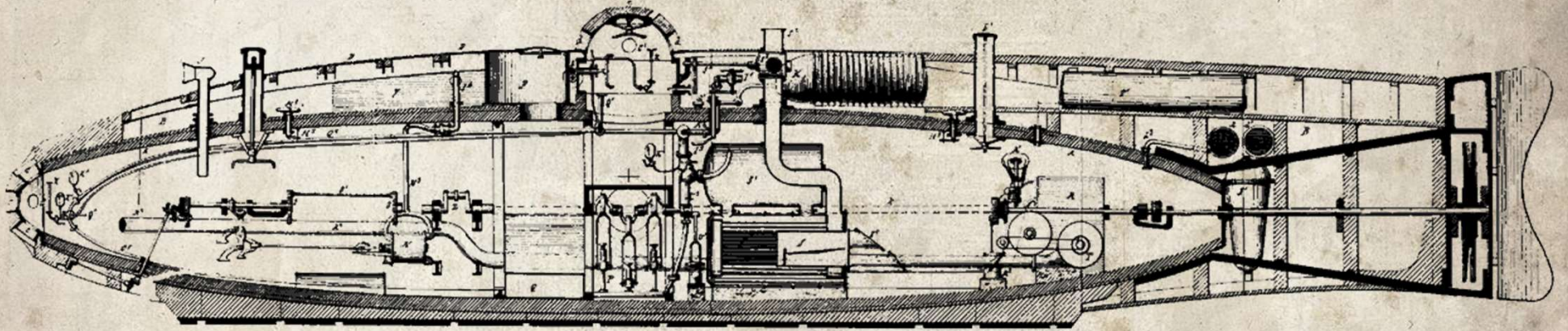


What Happened to Resurgam ?

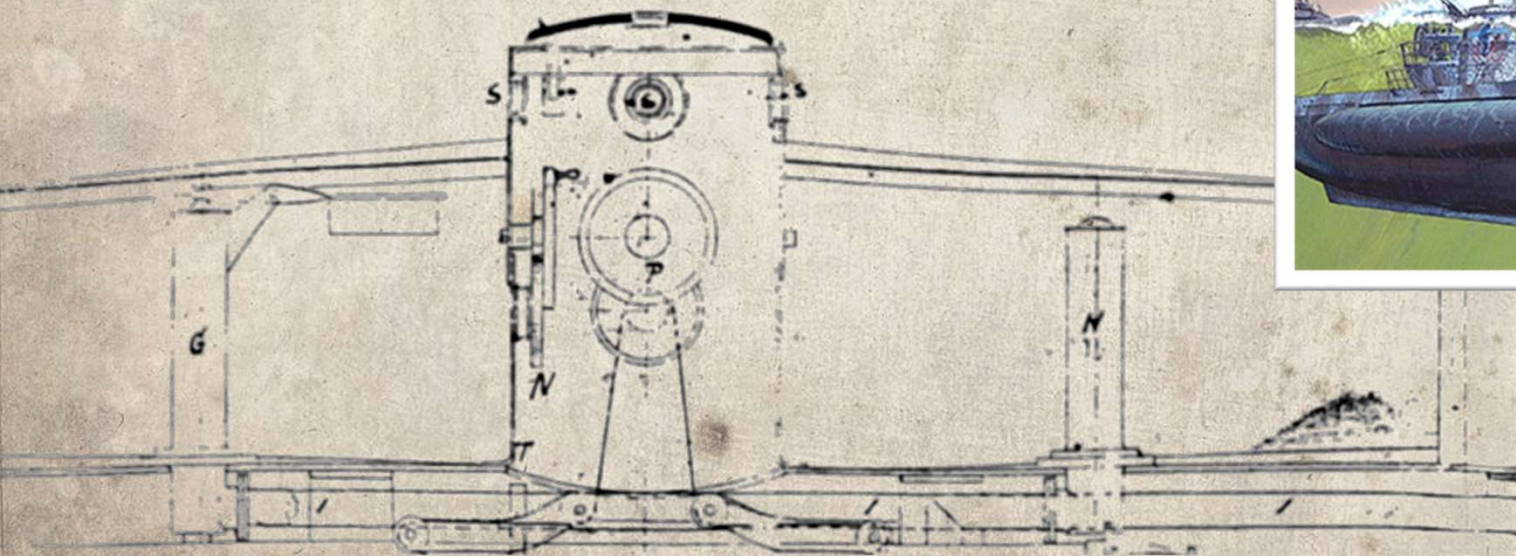
Cannon tower fitted with
1 Manhole screw inside Port



The First Powered Submarine?



Ictineo II



First snorkel?

The Resurgam Submarine

'A Project for Annoying the Enemy'

ISBN 978 178 491 583 4

