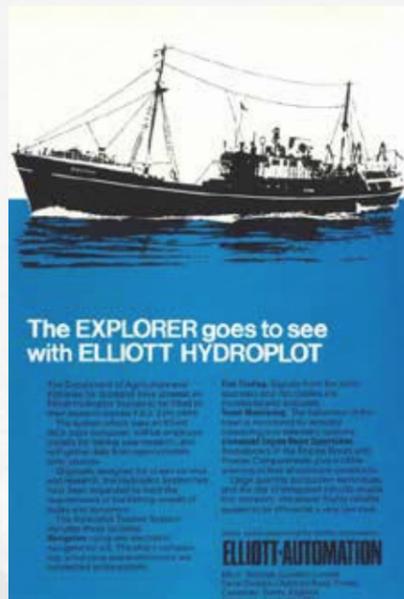


● **Early use and development of computers for scientific work—on board a research ship.**



● **Trawling and the design of deep-sea fishing gear.**

Experiments and testing of trawl gear using pioneering methods to monitor performance in use. ( See *A Trawler investigates* video)

● **The Explorer's own story.**



Explorer outward bound from the Clyde to Rockall

● **Maritime history.**

Ship design and construction. Yards, skills, economics, the Scottish east coast fishing fleet. Human stories, Leith and Aberdeen. Harbours, navigation, communications.

● **Marine engineering and Scottish industrial heritage.**

Ship design and construction in the mid 20th century. Physical and mechanical principles – thermal science, propulsion, fuels, pressure, controls, transmission, electrical generation, and more.

● **Working a deep sea trawler – life on board.**

Skills, hazards, hardships, weather and ice. Ship's crew – their skills and stories. Risks and rewards. Experiences in foreign ports and waters. Recreation, food and drink. Anecdotes



Sorting the catch on the main deck

● **Seamanship and navigation in Arctic and northern waters.**

Experiences, weather, wildlife, risks, anecdotes, Cold War encounters.



● **Geographic, climatic and hydrographic understanding of the Arctic, North Sea and North Atlantic waters.**

Working with international teams of marine scientists to increase understanding of the effects of ocean currents on weather and marine life.

● **Scientific investigation, survey and monitoring of fish stocks.**

Instrumentation, experiments, analyses. International co-operation.



Explorer deploying a towed transducer for fish stock analysis

● **Marine ecology**

Fish stocks, currents, sea temperatures, plankton, parasites, and the sea bed. Effects of oil exploration and extraction.



Examining specimens in the fish lab.

We propose to take things forward on the premise that the restored *SS Explorer* will become:

- A living scientific, historical and educational resource, which can be aligned to the Curriculum for Excellence, enabling schools to add an engaging and unique perspective to the outcomes and experiences required by the CfE.
- A visitor attraction which complements and adds depth, and a fresh new experience, to Leith's existing tourist attractions.

**The story of the SS Explorer provides visitors and educators with a tangible route into a wide range of knowledge and human experience, much of which can be linked to the national curriculum. Many of the themes have a continuing relevance today and a natural reach into contemporary issues, including sustainable fishing, global marine ecology and climate science.**

The Society and their education advisors will consult with local head teachers, and potential partner organisations such as the Scottish Fisheries Museum, and the Aberdeen Maritime Museum, regarding the interpretation and presentation of the themes opposite (and others which may emerge) – to create an engaging and rewarding visit to the restored ship. We shall seek the views of the community of Leith and tourism specialists on how best to make the most of the ship and its story – to appeal, and be of value to, the widest range of schools, community and tourist audiences.

**Using the space on-board.**

We shall use the spaces in the ship to create study facilities and exhibition spaces – bringing the ship alive with sound, projection, film, graphic and interactive displays. Using digital media we can take the story of the ship to the places she sailed, and evoke and recount the experiences of the individuals who lived and worked on-board.

