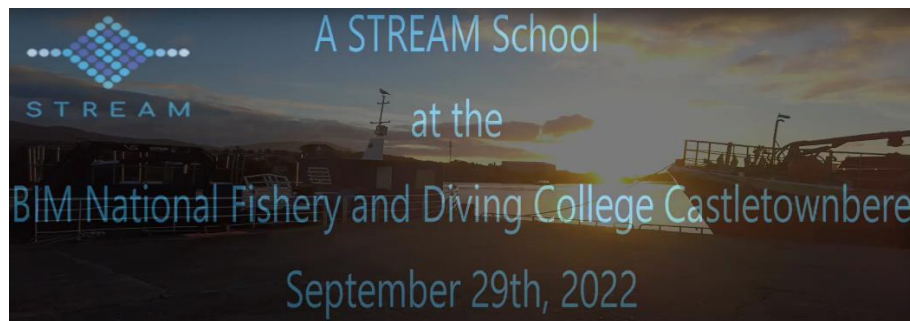




## Sensor technologies for remote environmental aquatic monitoring (STREAM) School held at the BIM National Fishery and Diving College.



On Thursday 29<sup>th</sup> September 2022 a STREAM School was held at the BIM National Fishery and Diving College in Castletownbere. The aim of the workshop was to explain the fundamentals of aquatic and meteorological sensors by demonstrating their operation and explaining the environmental implications of the readings. This was a practical hands-on workshop for the aquaculture and fishing industries and those involved with local communities concerned about climate change's impacts and who wish to establish monitoring systems.

The STREAM project was introduced by Dr Joe O'Mahony and the morning session covered three core topics, Aquatic Sensors, STREAM Meteorological Stations and the Technology for transmitting live data and the associated management of the information collected.



A hands on session involved the audience's participation allowed stakeholders to see and ask questions about the equipment being used.

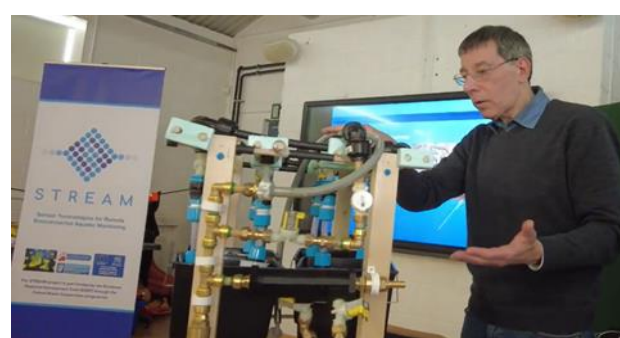
John Ronan (STREAM) provided a comprehensive overview of the STREAM weather stations and the technicalities of broadcasting and presenting the live data being collected by the STREAM project.



Captain Shane Begley director of The National Fisheries and Diving College in Castletownbere spoke about its resources (Dive training Barge) and plans for the future.

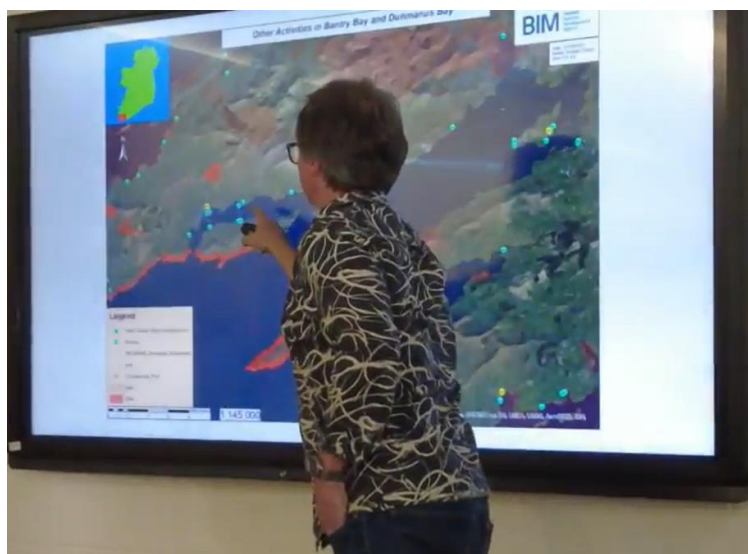


Dr Ambrose Furey and Mike Griew spoke about the development of STREAM biotoxin detection methods. This included a practical demonstration that Mike was developing to take multiple samples from the barge in Castletownbere.





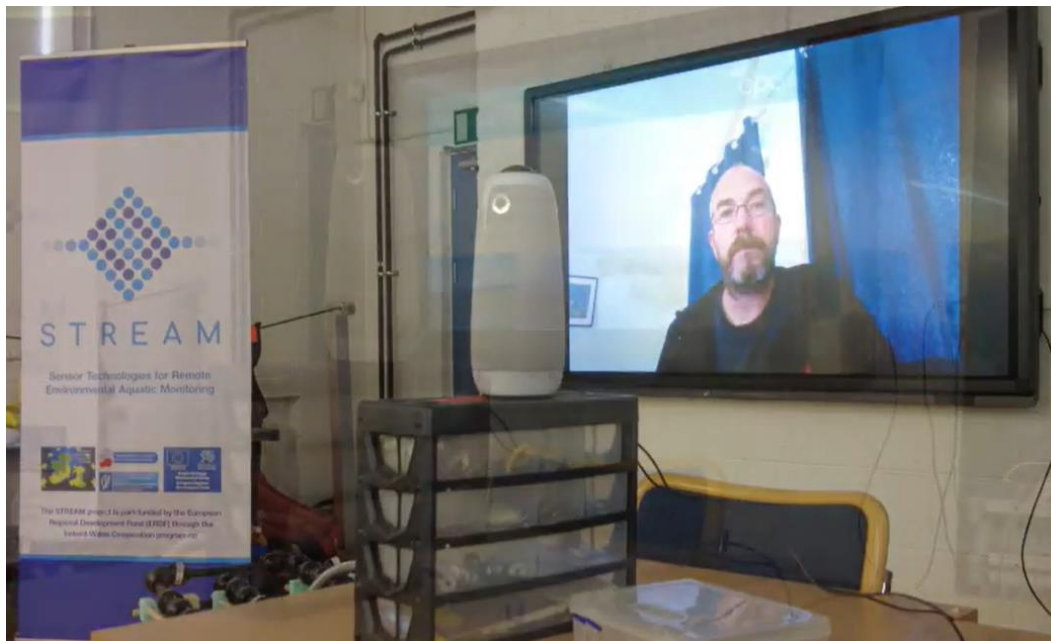
David Millard of BIM spoke about Aquaculture in the South West of Ireland and industry requirements.



Tim Mortensen from the Welsh Centre for Printing and Coating (WCPC) at Swansea University provided an intriguing insight into the development of 2 D printed sensors and the deployment of commercial Sonde's.



An informative presentation on how the EPA monitor and assess transitional and coastal water bodies and assign their status was given by Dr Robert Wilkes.



After the presentations were given there was an insightful discussion about the benefits and needs of stakeholders at which there was a lot of straight talking. Providing an opportunity for the STREAM team to reflect and address the issues raised.

