Natural Environment Research Council

Webinar Series

Constructing a Digital Environment

Theme: Sensing the Environment

Title: "In-situ water chemistry monitoring: the next generation of water quality data and what to do with it"

Speaker: Professor Matt Mowlem

Time: Friday 10th September 11:00 GMT

Registration and further details:
https://ukri.zoom.us/webinar/register/WN_9odfE46BQI63U0wTm24Gzg

Prof. Matt Mowlem is the founder of the National Oceanography Centre's Sensors Development Group and was for 11 years the head of the Ocean technology and Engineering group. In 2019 he founded a new company, now called ClearWater Sensors Ltd. as a vehicle to commercialise Lab on Chip chemical sensor technology developed under his leadership. This includes the world's most robust and deep diving reagent-based sensors for nutrients (Nitrate, Nitrite, Phosphate, Silicic Acid), pH and iron which also have world leading metrology performance. He currently coordinates the European Union's Horizon 2020 funded ocean measurement systems development project "TechOceanS", is the NOC lead for the EPSRC programme grant "MISSION" developing Silicon Photonics based MIR spectroscopy approaches for observing Green House Gasses, and contributes to four of the five ISCF capital projects under the OCEANIDS sensors programme (Autonuts and CarCASS as PI, CaPASOS and STAFES-APP as CI).

The third segment of the **NERC Constructing a Digital Environment (CDE) webinar series** focuses on 'Sensing the Environment'. Reflecting the wide availability of ubiquitous, low-cost sensors and microprocessor controllers, there are now more opportunities than ever to plan and undertake environmental sensing research projects. But what should you measure, and how often should you take readings? How can you 'densify' observations in response to incidents? How can information reach decision makers in the most appropriate time and format? These are the kind of issues we will seek to address in this, our third segment of the webinar series, hearing from leading experts in environmental sensing.

https://digitalenvironment.org/cde-webinar-series