Theme: Sensing the Environment

Title: "The Three Ingredients for Scaling-Up Water Sensor Networks: People, Platform, and Protocols"

Speaker: Dr Scott Ensign and Shannon Hicks

Time: Friday 1st October 11:00 GMT

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

Scott Ensign is Vice President and Research Scientist at Stroud Water Research Center, a U.S.-based non-profit that seeks to advance knowledge and stewardship of freshwater systems through global research, education, and watershed restoration. Shannon Hicks is the Stroud Center's Research Engineer who leads hardware design and water sensor network deployment for multi-stakeholder groups across the U.S. In an effort to democratize and expand environmental data collection in pursuit of scientific, educational, and water management outcomes, the Stroud Center has combined three essential ingredients. The Stroud Center's EnviroDIY initiative brings together a global community of people to learn and share how to make environmental sensing equipment through on-line and in-person training. Tightly integrated with EnviroDIY is Monitor My Watershed, an online data sharing platform for visualizing environmental data posted by internet-connected devices. This platform implements protocols with standardized data formats that allow machine-to-machine data exchange with other environmental data hubs. The speakers will present the challenges and their solutions for scaling this environmental sensor network across the globe.

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.

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