

# Sensing our Environment: From Innovative Materials to Autonomous Sensors & Earth Observation

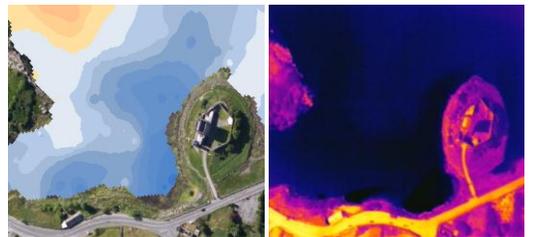
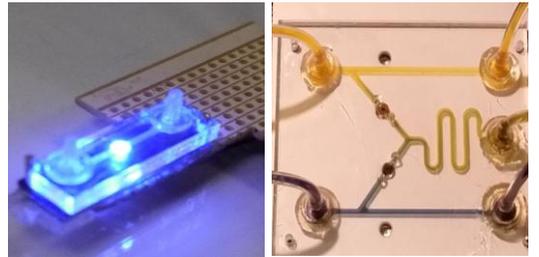
Technologies for monitoring the quality of natural waters and drinking water, and compliance of wastewater with regulatory standards, are set to change dramatically in terms of price and performance. The impact of 'big environmental data' will be truly revolutionary for businesses and for citizens.

Water quality issues do not respect national borders – pollution arising from one state can affect neighboring states, and the effects of climate change arise from human activity on a global scale. The scale of the opportunity for new technologies and associated services and businesses is therefore global – solutions developed for one scenario will be adaptable for many related applications and locations. Services will be 'cloud' based, capable of accessing and analyzing data from multiple sources and locations, and providing environmental information that can be highly localized or global in range.

Realising the potential of these technologies requires input that is truly multidisciplinary in nature, and encompassing a wide variety of stakeholders. This symposium will bring together experts in water analysis and monitoring, innovative instrumentation, satellite remote sensing of water status, and water treatment to discuss current and future trends and developments in technologies related to water. Participants will be drawn from University, industry and agency backgrounds, from Europe and North America. Key topics will include the rapidly evolving nature of water quality sensing devices, the integration of information from multiple sources (in-situ sensors, satellite remote sensing, and drone based multispectral imaging), and the increasing use of mobile phones by citizens to perform sophisticated environmental analytical measurements and share data (citizen science and 'crowd' sensing). The symposium is supported by NAPES (a European Multipartner project focused on developing next generation water quality sensing technologies – [www.napes.eu](http://www.napes.eu)), The National Centre for Sensor Research ([www.ncsr.ie](http://www.ncsr.ie)) and the DCU Water Institute .

## Confirmed Speakers:

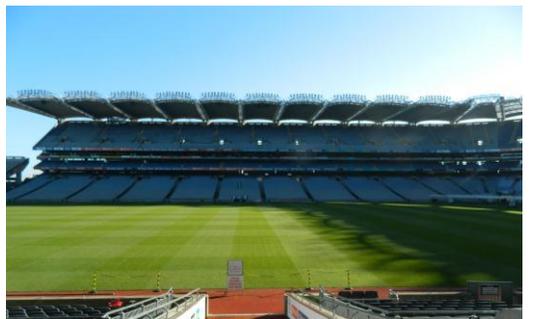
Prof. Dermot Diamond DCU, Prof. Jed Harrison University of Alberta; Prof. Graham Mills, University of Portsmouth; Mr. Coleman Concanon, EPA Ireland; Breda Moore, TE Laboratories; Mr. Liam Curran, Enterprise Ireland; Dr. Bas van der Grift, Deltares



Date: 27<sup>th</sup> & 28<sup>th</sup> March 2017

## Venue:

Croke Park, Jones Road, Dublin 3, Ireland.



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NEXT GENERATION ANALYTICAL PLATFORMS  
FOR ENVIRONMENTAL SENSING