

# International Journal of *Environmental Research* and Public Health



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# Diffuse Water Pollution Modeling, Monitoring and Mitigation

Guest Editor:

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Deadline for manuscript submissions: closed (30 September 2019)

### Message from the Guest Editor

Diffuse water pollution can be defined as pollution that is "weather-driven". As global efforts to reduce point source pollution have increased, the problem of diffuse pollution has emerged as a separate issue, requiring a very different set of mitigation tools. Weather-driven loads vary greatly over space and time. This makes monitoring of loads and identification of sources a challenge for instrumentation and data analysis. Apportionment of sources through modelling can help, but this presents challenges for both calibration and validation. The pollutants of concern include soluble and colloid-sorbed components, which influence public health, ecosystem function, and business viability. Targeted approaches to mitigation require the analysis of what will be cost-effective, and the polluterpays principle does not easily lends itself to the regulation diffuse pollution. Policy-makers of need simple instruments effective in delivering water quality benefits to justify public expenditure. In short, the scientific and governance challenges facing those addressing this emerging issue are significant.







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### Message from the Editor-in-Chief

#### Prof. Dr. Paul B. Tchounwou

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