



Emeritus Professor Richard Ashley of Urban Drainage, University of Sheffield and Adjunct Professor at Lulea Technical University, Sweden. Professional UK Chartered Civil Engineer (Institution of Civil Engineers and Institution of Water and Environmental Management); former MD of the Pennine Water Group (PWG) University of Sheffield. Practice and Research career spanning 50 years in the design and science of urban drainage and water systems; cross-disciplinary activities for governance, sustainability and resilience. Former Director of EcoFutures Ltd.; Some 500 publications, mainly for urban drainage and flooding; >£2M in UK Research Council funding for sewer process research and similar from international sources.

Led Engineering and Physical Sciences Research Council (EPSRC), EU and industry funded projects developing a suite of decision support processes known as SWARD Sustainable Water industry Asset Resource Decisions (2004). Led the team **Awarded the biennial International Water Association (IWA) prize for this work - Research Excellence in Support of Sustainable Urban Water Management in September 2008**. Founder International Water Association working group on Sewer Processes and primary editor and contributor of the IWA Scientific and Technical Report on Sewer Solids (2004). Co-author of the IWA manual on Performance Indicators for wastewater services (2002); coordinated a book on urban drainage practice for Institution of Civil Engineers published by Emerald. Hosted 4 international conferences, including Charing the IWA/IAHR International Conference on Urban Drainage in Edinburgh in 2008.

Past Chairman of the Yorkshire Region of the Institution of Civil Engineers. Former editor of the journal Engineering Sustainability. Erstwhile Visiting Professor at the Technical University of Delft and at Monash University in Australia. Led Scientific Missions to: New Zealand (British Council); USA (UK water industry). Member of the UK Government's Foresight Flood and coastal defence project team and principal author of the urban flood risk parts; updated in 2008 and revisited in 2014. Former commissioner for the River Aire Internal Drainage Board and Chairman of the Bradford MDC Flood and water management inquiry (2005).

More than 3 decades of international collaboration, and in addition to CPD courses in the UK, delivered training courses worldwide. Completed various best practice drainage guides *inter alia* 'Adaptable Urban Drainage (UK Impacts Of Climate Change On The Built Environment, Transport And Utilities managed programme 2003-7); Water and New Developments (WaND) project (*Sustainable Urban Environments* (EPSRC) 2003-7); project manager for EPSRC/ABB/Water industry funded NEPTUNE project – real time control of water distribution systems for energy management.

Researcher UK Flood Risk Management Consortium (2004-12). Seven EU INTERREG projects completed: NORIS, UWC, FloodResilienCity, MARE, SKINT, FAIR and BEGIN (2003-2021). DTI designated UK representative on the management board for the EU COST action on urban flood management (C22, 2005-9), researcher in the EU FP7 PREPARED (for climate change) project (2010-14); scientific adviser to the House of Lords inquiry into water management in England and Wales (2005-6); adviser to the inquiry into the 2007 flooding to Sir Michael Pitt (2008).

Adviser to OFWAT and Thames Water on the proposed Thames Tideway storage tunnel. Reports to OECD on: (i) global need for water infrastructure in the next 25 years (2006); (ii) flood risk management arrangements in the Loire Valley (2009-2010); (iii) Paris flood risk (2011-14); European country needs for water infrastructure (20016-2018).

UK Water Industry Research Ltd. project reports: (i) Sewerage to the end of the century; (ii) rodent management in sewers; (iii) effects of extended storage on sewers; (iii) a research roadmap for Sustainable drainage systems. 3 DEFRA integrated urban drainage pilots (-2008). CIRIA (Construction Industry Research and Information Association) retrofit surface water management guidance (2011); revised approach to exceedance flood management (2014); re-drafted the CIRIA UK SuDS manual

(2015) and part of team CIRIA/Stantec Ltd. developed and applying a financial assessment tool enhancing multi-functional valuation of surface water management (BEST, 2014 - 2021); advisor to the Defra National SuDS standards (2009-2011).

Advisor to Welsh Water for stormwater disconnection in Wales (2008-2013) and bringing SuDS to Wales (2016-17). Invited expert for: Climate Change and the Urban Environment Australian Academy of Technological Sciences and Engineering (ATSE) (2009); Chief Scientist for the State of Queensland on Flood Risk Management (2012); flooding in New Orleans (2011); Swedish Research Council (FORMAS) recurrent reviews of Environmental Research in Sweden (2009 and 2013). Adviser to the South African WRC funded project on Water sensitive urban design (2011-2014).

Part of the UNESCO-IHE team that reviewed the Dutch Room for the River Programme (2012) for Rijkswaterstaat. Cooperative Research Centre for water sensitive cities in Australia (Led by Monash University) led the flood resilience aspects (2011-2017); EU URBAN project on blue-green infrastructure led by TU Lulea (2013-2017) with TU Delft. Use of blue-green infrastructure for sewer overflow management for Water UK (2017-18). More than 30 media appearances on UK, Dutch and Russian TV and radio during the floods in the UK of winter 2013/4, with newspaper articles.

Recipient of the Joint Committee on Urban Drainage of IWA/IAHR 2014 triennial Career achievement award. Ongoing work continuing the use and development of the economic valuation tool BEST for nature-based systems. The use of nature-based systems to alleviate climate related urban flooding in England for the National Infrastructure Commission (2022) via Sayers and Partners. In 2024 reviewing the Enabling Water Sensitive Communities work on public receptivity to NbS for CIWEM. Most recently for the English Environment Agency on the value of infiltration from NbS for water resources (2026