

Dr. Jonathan Bridge

Title: Associate Professor in Environmental Geoscience

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Trainer Biography:

Dr Jon Bridge is an Associate Professor in Environmental Geoscience at Sheffield Hallam University. He leads the MSc Environmental Management postgraduate degree courses and coordinates the Landscape Laboratory Research Group. From 2012-2017 he taught in the Centre for Engineering Sustainability at the University of Liverpool, prior to which he spent 9 years as a PhD and postdoctoral researcher in the Groundwater Protection and Restoration Group at The University of Sheffield. Dr Bridge has a track-record of research activity across the environmental geosciences. His early postdoctoral work was in soil- and waterborne pathogens and human health (invited paper in *Bulletin of the World Health Organization*, <http://doi.org/10.2471/blt.09.072512>), numerical and agent-based simulation of soil biogeochemical processes, and colloid transport and fate in porous media (e.g. <http://doi.org/10.1016/j.cis.2017.06.002>). He also has strong interests in catchment-scale water and contaminant dynamics, in particular in semi-arid catchments in the Middle East (Jordan, see <http://doi.org/10.5194/hess-20-4391-2016>).

His most recent work has involved collaboration with a team of Syrian academics to collect the first regional baseline soil survey in North-West Syria since before the start of the Civil War in 2011 (<http://doi.org/10.1039/d2va00333c>).

Workshop Title:

Environmental Data Spaces - situational awareness for sustainable environmental management

Abstract:

Sustainable natural and human landscapes will need to be resilient to substantial stresses imposed by human development and environmental change. A significant challenge in achieving this aim is the coordination between many different stakeholders through the effective collection, sharing and utilisation of environmental knowledge and data. In this interactive workshop, we will explore the utility of the Data Spaces concept (<https://dssc.eu/>) developed by the European Union as a potential solution to this challenge. The workshop will comprise three sessions separated by short intervals:

- Hour 1: Introduction to Data Spaces and an example of application to landscape management in Sheffield, UK
- Hour 2: Potential applications and benefits of Environmental Data Spaces.
- Hour 3: Exploring a Data Space for resilient environmental management in Kuwait.