

BCS 2025 - Mapping The Landscape - Preliminary Conference Programme

WEDNESDAY, 3RD SEPTEMBER 2025

Dedicated GeoViz and Map Curators' Group Autumn Workshops

Location: British Geological Survey (BGS), Keyworth, Nottingham, NG12 5GG

Two separate events: **Map Curators' Group Autumn Workshop** and **GeoViz Professional Development Day**

Map Curators' Group Autumn Workshop - Open to all attendees

The MCG Autumn Workshop will feature map collection displays from the BGS Library and the University of Nottingham. In addition, Jon Dollery (Royal Commission on the Ancient and Historical Monuments of Wales) will be giving a keynote lecture on "Unleashing the Archives: Mapping the Past for the Future".

There will also be an opportunity to tour some of the BGS facilities, not usually accessible to the public, and hear more about the work that takes place there.



Schedule

TIME

09:30

10:00 – 11:30

11:50 – 12:45

SESSION

Registration Opens / Tea & Coffee on arrival

Map Collections Display – BGS Library

Keynote Lecture: Unleashing the Archives: Mapping the Past for the Future by Jon Dollery, RCAHMW



As Mapping Officer at the RCAHMW, Jon Dollery is responsible for creating and maintaining a range of geospatial datasets and supporting the use of the Commission's vast archival resources. His research interests are landscape archaeology and making historical resources more accessible and interoperable in the modern world.

12:45 – 13:45

Lunch

13:45 – 14:30

BGS Site Visits: Borehole Archive, 3D Lab, Geological Walk

14:30 – 16:00

Map Collections Display – University of Nottingham (at BGS)



GeoViz Professional Development Day

09:45 - Registration Opens / Tea & Coffee on arrival

10:15 - 11:45 - Parallel Workshops* - Attendees select one of the following workshops:

1. 3D modelling - How to create a geological profile

Have you ever wondered how to draw cross-sectional geological profiles to help understand the subsurface? This short workshop will show you everything you need to know from choosing the right profile, identifying the key geological and mapping features, building the subsurface geological information from known observation points such as boreholes, and creating a well-thought out and balanced cross-section output. The staff from the British Geological Survey will be on-hand to guide you through the process. They will help with any questions (geological or otherwise) and advise on choice of software to help design and draw your cross-sections.

Workshop Facilitators



Helen Burke, 3D geological modeller & surveyor, she joined BGS 25 years ago in the Enquiries department, fielding questions on all aspects of geology to experts in BGS. This role gave insight into the breadth of knowledge and experience of our BGS colleagues. Helen moved into geological surveying and 3D modelling and then joined the

BGS Products team, providing experience in primary geological surveying in the field through to interpreting data in a 3D modelling environment and the publication process to make data available for our user community.



Steve Thorpe, Geospatial data specialist and lead driller, British Geological Survey, he started at BGS 20 years ago as an Assistant Scientific Officer working on a broad variety of projects and learning about BGS baseline data. This led into 3D modelling where Steve learned many geological skills such as drawing cross-sections from borehole and map data.

Steve hopes to bring this knowledge to the workshop and guide people through this process, considering all the benefits and limitations of the data.

2. Urban Land Use Mapping: The cartographic challenge

This workshop will explore the issues of creating effective urban land use maps with data attributed to large scale geodatabases. It will briefly look at the range and types of land use classification adopted over the past 50 years, the difference between land use and land cover and the problem of how to represent 3D land use in a 2D form. The workshop will use a case study area in London to demonstrate the need for creative cartographic solutions to complex hierarchical land use classifications.

Workshop Facilitator

Dr Seppe Cassettari, former BCS President (retired), worked with land classification data for much of his 40-year career. He was involved in early urban green space and telecom land use classification and developed the hierarchical UKMap land use model in the early 2000's. His career spanned academia, the military and more recently as owner of The GeoInformation Group, an independent geospatial data publisher. Although formally retired he is still active in the geospatial community.

12:00 - 12:45 BGS site visits available (optional). Choose one from BGS Core Store, 3D Visualisation Lab, or Geological Walk.

12:45 - 13:45 *Lunch*

13:45 - 14:30 BGS site visits available (optional). Choose one from BGS Core Store, 3D Visualisation Lab, or Geological Walk.

14:30 - 16:00 - Parallel Workshops* - Attendees select one of the following workshops:

1. Sustainable Transport and the GeoViz Toolkit

Using the toolkit for prompts, we will explore some open source cycle and bus stop data and convert into QGIS, filtering accordingly to make a usable map.

We will then convert to Adobe to style the map using Illustrator's font, symbol and global graphic and colour swatch styles using the Toolkit for inspiration.

Note: Software requirements will be sent to delegates prior to the workshop.

Workshop Facilitator



Clare Seldon CGeog, Freelance Cartographic Designer, is an accomplished cartographic designer and lecturer with over 25 years of experience specialising in transport and event mapping. She holds a BSc in Cartography from Oxford Brookes University and has been a Chartered Geographer with the Royal

Geographical Society since 2014. She has received several prestigious accolades, including honours in the British Cartographic Society (BCS) Awards, the Wallis Award in 2014, and a feature in Atlas of Design, Volume 7 (2024). Clare has served on the BCS Council since 2021. In this role, she leads social media outreach initiatives and advocates for the ongoing advancement of cartographic design education in step with emerging technologies.

2. Land Cover to Habitat Classification - the possibilities and limitations

Habitat mapping is required for an increasing number of use cases, from Environmental Impact Assessments, to mapping of Natural Capital, however, challenges exist in mapping habitats due to lack of available data, and lack of granularity. This workshop will explore how land cover mapping can be utilised to serve an alternative purpose by mapping habitat types.

Workshop Facilitator



Chris Burnett, Chief Product Officer, Map Impact, has worked on many land and sea classification projects across the world, including a 2-year project to map the habitats of Abu Dhabi Emirate in detail from satellite imagery and ecologist's ground truthing data. More recently he has utilised existing land cover mapping sources to

help shape and create Map Impact's BiodiversityView product

