



# Geological Society Careers & Industry Day 6 November 2019

## Delegate Manual

Venue: British Geological Survey, Keyworth



@geolsoc



#GSLCareers19

## PRESIDENT'S WELCOME

Welcome to the Geological Society's Career's Day! I hope you find today both rewarding and enjoyable.

A key role of the Society is to bring together employers across both academic and non-academic sectors – we have helped foster a long and distinguished history of good communication between the two. Today you've a chance to hear what representatives from different sectors have to say, either from their presentations or through talking to those who have exhibition stands. In this way, I hope this Careers Day will provide you with a better understanding of the range of career opportunities for geoscience graduates and postgraduates, as well as information about higher degrees, which offer the MSc and PhD routes to employment.



For many, a geology degree leads to a lifetime's career, using what you have learnt. This may be as a technical specialist and for some this may later lead to management roles as experience increases. Some of you might choose to work in other sectors, and the Careers Day may help you to make that decision. Importantly, whichever path you do choose for your career, you will find that your education in geology will stand you in good stead and be valued by your employer.

Geology is a fascinating subject, always with something new. Today is your opportunity to meet both different employers and also universities offering higher degrees. I thank them for giving up their time to attend and you for taking the opportunity to come along. Enjoy your day!

Nick Rogers

President, Geological Society of London

The Geological Society would like to thank the following sponsors of the Career & Industry Day 2019





# PROGRAMME

9.30	<b>Registration</b>
10.00	<b>Welcome</b> Katherine Royse (British Geological Survey)
10.20	<b>Engineering Geology</b> John Booth (Geotechnics Limited) and James Bantham (Atkins)
11.00	<b>Exhibition</b>
11.20	<b>Contaminated Land / Environmental</b> Paul Nathanail (Land Quality Management Ltd.)
11.40	<b>Hydrogeology</b> Deborah Thomas (Envireau Water)
12.00	<b>Lunch and Exhibition</b>
13.00	<b>Chartership and CPD (Early Career)</b> Andria Loppas (Jacobs)
13.20	<b>Radioactive Waste Management</b> Rob McLaverty (Radioactive Waste Management)
13.40	<b>Geohazard Risk Assessment / Geology and Sustainability</b> Annie Winson (British Geological Survey)
14.00	<b>Exhibition</b>
14.20	<b>Teaching Geology and Geography</b> Dan Boatright (Joseph Chamberlain College, Earth Science Teachers Association)
14.40	<b>Oil and Gas</b> Thomas Cousins (Halliburton)
15.00	<b>Geology PhD</b> Ruth Davey (Imperial College, London)
15.20	<b>Wrap up Session</b> Katherine Royse (British Geological Survey)
15.40	<b>Drinks Reception and Exhibition</b>

**3D Virtual fieldwork demos** (through doors at the far end of the exhibition) – 11.00, 11.30, 12.00, 13.30, 14.00 & 14.30

**Core Store Tours** – 11.00, 12.00, 13.00, 14.00

Please check at the registration to see if there are places available.

## CATERING INFORMATION

### Lunch

Please show your lunch voucher to the catering staff to redeem your lunch pack. Lunch will be on a first come first serve basis.

### Drinks reception

You are entitled to one free beer or soft drink at the reception Please show your drinks voucher to the catering staff to redeem your drink. The drinks will be served on a first come first serve basis.

## SPEAKERS (in programme order)

**Katherine Royse (British Geological Survey).** As the Science Director for GeoAnalytics and Modelling at BGS, Katherine focuses on taking a multidisciplinary approach to modelling the environment to better understand and predict the Earth's response to environmental change. Katherine is a member of the NERC Innovation Advisory Board and has a strong background in knowledge exchange and stakeholder engagement having completed a NERC KE Fellowship in probability, uncertainty and risk in the environment working to translate natural hazard research to the financial service sector. Katherine is also a STEM ambassador, and associate editor of the Geoscience Data journal and German Journal of Geoscience.

**John Booth (Geotechnics Limited)** John is the Managing Director of Geotechnics Limited, one of the UK's largest independent geotechnical investigation specialists. He has 35 years' experience of engineering geology in the UK and overseas. He has a BSc in Geology and an MSc in Engineering Geology.

**James Batham (Atkins)** James is an Engineering Geologist with 4 years of industry experience at Atkins, one of the world's most respected design, engineering and project management consultancies. He has a BSc in Geology from the University of Birmingham and an MSc in Engineering Geology from the University of Leeds. Working both in the design office and on site, James has undertaken desk study reviews and research, managed ground investigations and production of associated interpretive reports and models, undertaken earthwork inspections, and analysed foundation capacities and slope stability for a broad range of projects spanning high speed rail, conventional rail, highways and residential developments.

**Paul Nathanail (Land Quality Management Ltd.)** Paul studied Earth Sciences at Cambridge University followed by an internship with the Cyprus Geological Survey Department and a MSc in Engineering Geology. Paul's work combines the investigation, assessment and remediation of contaminated sites and the redevelopment of brownfield sites. He also carries out geohazard assessments for slopes, earthquakes, subsidence and landslides.

**Deborah Thomas (Envireau Water)** Deborah is a Senior Hydrogeologist working at Envireau Water with over 6 years' technical experience in hydrogeology. Deborah's expertise lies within the quarrying and mining, water resourcing and landfill sectors. Within these divisions her work includes undertaking environmental impact assessments, monitoring and impact analysis, and hydrogeological risk assessments. Deborah graduated from the University of Birmingham with an MSc in Hydrogeology after having completed her BSc (Hons) in Geology at the University of Leicester.

**Andria Loppas (Jacobs)** Andria Loppas studied Geological Science at Royal Holloway, University of London and then went on to gain an MSc and DIC in Engineering Geology from Imperial College, London. She is a Geotechnical Engineer with experience on a variety of infrastructure projects (highway and railway). Experience encompasses procurement and supervision of ground investigations, ground stability analysis and design stabilisation measures, design of earthworks, retaining walls, as well as compiling geotechnical desk studies, ground investigation and geotechnical design reports.

**Rob McLaverty (Radioactive Waste Management)** Rob has been working as a geologist in the nuclear industry for over 5 years having started his career on the Nuclear Decommissioning Authority's graduate scheme, "nucleargraduates". While on the programme Rob worked at Radioactive Waste Management (RWM), the Department of Energy and Climate Change and Jacobs. Following the graduate programme Rob returned to RWM, where he works in the site characterisation team for the UK's Geological Disposal Facility (GDF) project - one of the UK's largest ever environmental protection projects, which will provide a safe and secure long-term solution for the disposal of higher activity radioactive waste.

**Annie Winson (British Geological Survey)** Annie is a Hazard and Vulnerability Specialist at BGS. She completed an MSci (Hons) with a year of international study, at Royal Holloway College, University of London followed by an MSc in Natural Hazards and a PhD in Volcanology at the Earth Observatory of Singapore. Annie's research interests include disaster risk reduction, early warning systems, multi-hazard interactions, natural hazards, science communication and education, volcanic eruption forecasting

**Dan Boatright (Joseph Chamberlain College, Earth Science Teachers Association)** Teacher by trade, recently elected District Councillor for the Liberal Democrats in Wychavon, and current Chair of the Earth Science Teachers Association. Career interests lie very much in teaching fieldwork and the practical components of geology and geography, incorporating as much mud, rock and fossils into my day as possible. Passionate supporter of sixth form colleges, their track record for getting students from all walks of life to university and incredibly biased towards their ability to produce world class education. Keen promoter of Earth Sciences and what they can bring to education, helping to sell geology to schools and teachers where possible (and offer training and help when required).

**Thomas Cousins (Halliburton)** Thomas graduated with a degree in geology from the University of Portsmouth in 2012 and joined Neflex Petroleum Consultants later that year. He began his career working on the Reservoir and Seal team, focusing on global reservoir quality trends in carbonate and siliciclastic reservoirs. After Halliburton purchased Neflex, he moved into more regional- and exploration-focused geoscience, which included studies on the South Caspian Basin, the Eastern Paratethys, the Eastern Black Sea and an unconventional resource comparison of the Alberta Basin and the Arabian Plate. More recently he's moved into a more business focused role, where he manages contracts and strategic partnerships for Halliburton/Landmark's suite of geoscience software applications.

**Ruth Davey (Imperial College, London)** I am currently completing a PhD at Imperial College London in Organic Geochemistry. The aim of my research is to see how gases can be stored and extracted from shales using changing gas chemistry as an index. I started out completing an MSci at the University of Southampton, specialising in inorganic geochemistry. My Masters research project involved measuring the REE and Pb isotope signatures of pyroclastic deposits on Tenerife. This led me to fall in love with geochemistry - the amount of information you can gather from such tiny samples never fails to amaze me! As an almost-Dr, my future plans are to work with carbon-capture-storage technology.

## SPONSOR PROFILES

### Radioactive Waste Management



[www.gov.uk/government/organisations/radioactive-waste-management](http://www.gov.uk/government/organisations/radioactive-waste-management)

Radioactive Waste Management (RWM) is a subsidiary of the Nuclear Decommissioning Authority. RWM has been established by Government to plan and deliver geological disposal of radioactive waste in the UK. Its vision is to create a safer future by managing radioactive waste effectively, to protect people and the environment.



**Cairn**

[www.cairnenergy.com](http://www.cairnenergy.com)

Cairn Energy is one of Europe's leading independent oil and gas exploration and development companies. Cairn has explored, discovered, developed and produced oil and gas in a variety of locations throughout the world as an operator and partner in all stages of the oil and gas lifecycle. Cairn's exploration activities have a geographical focus in North West Europe, West Africa and Latin America, underpinned by interests in production and development assets in the North Sea. Cairn has its headquarters in Edinburgh, Scotland supported by operational offices in London, Norway, Senegal and Mexico.



**St Andrews University**

<https://www.st-andrews.ac.uk/subjects/earth-environmental-sciences/>

Earth and Environmental Sciences at St Andrews spans topics from the formation of the planets to current climate change, integrating the natural sciences to understand the world around us. Degrees in this subject

equip students with a fundamental understanding of natural processes, ranging from the formation of mountain belts to ocean acidification, and volcanic eruptions to the management of Earth's resources. This allows graduates to address many of the greatest challenges facing science and society, including natural hazards, resource security, and environmental change.

St Andrews is the ideal place to study Earth and Environmental Sciences, as it is surrounded by world-famous geological outcrops and a dynamic natural environment. Taught degree programmes take advantage of the unique location with over 100 days in the field, both locally and across Europe. This extensive field training, combined with the state-of-the-art research and industry experience, allows graduates to enjoy some of the best employment prospects of any degree programme of any university in the UK.

**Schlumberger**

**Schlumberger**

<https://www.slb.com/>

We believe energy makes society progress, so we find ways to help our customers fuel agriculture, industry, medicine, science, space, technology, and transportation. Few parts of modern life, if any, are untouched by the raw materials of oil and gas. And it all starts with competent and talented teams working together to drill wells through subterranean environments they can never actually see. It takes a combination of engineering disciplines, along with computer science, geophysics, and metallurgy. Then there are astounding efforts to keep older wells pumping despite time's inevitable drain on production. From a well's cradle to grave, and everywhere in between—that is where the people of Schlumberger come in.



THE UNIVERSITY of EDINBURGH  
School of GeoSciences

## The School of GeoSciences – University of Edinburgh

<https://www.ed.ac.uk/geosciences>

Join a Top 20 world-ranked university\* and one of the largest and most successful groupings of geoscientists and geographers in the UK, as we address the most compelling issues of our time.

Increasing global population, urbanisation and wealth is resulting in unprecedented rates of worldwide climate and environmental change. At the School of GeoSciences, our interdisciplinary programmes enable students to explore and tackle global issues through a wide range of subjects, spanning across a range of natural and social sciences.

We offer taught and research programmes studying Earth's natural environment from perspectives of geology, geography, earth science, ecology, technology, meteorology, resource management and human society.

Making a difference starts here.

\*Ranked 20th in QS World University Rankings 2018



## Institute of GeoEnergy Engineering, Heriot-Watt University

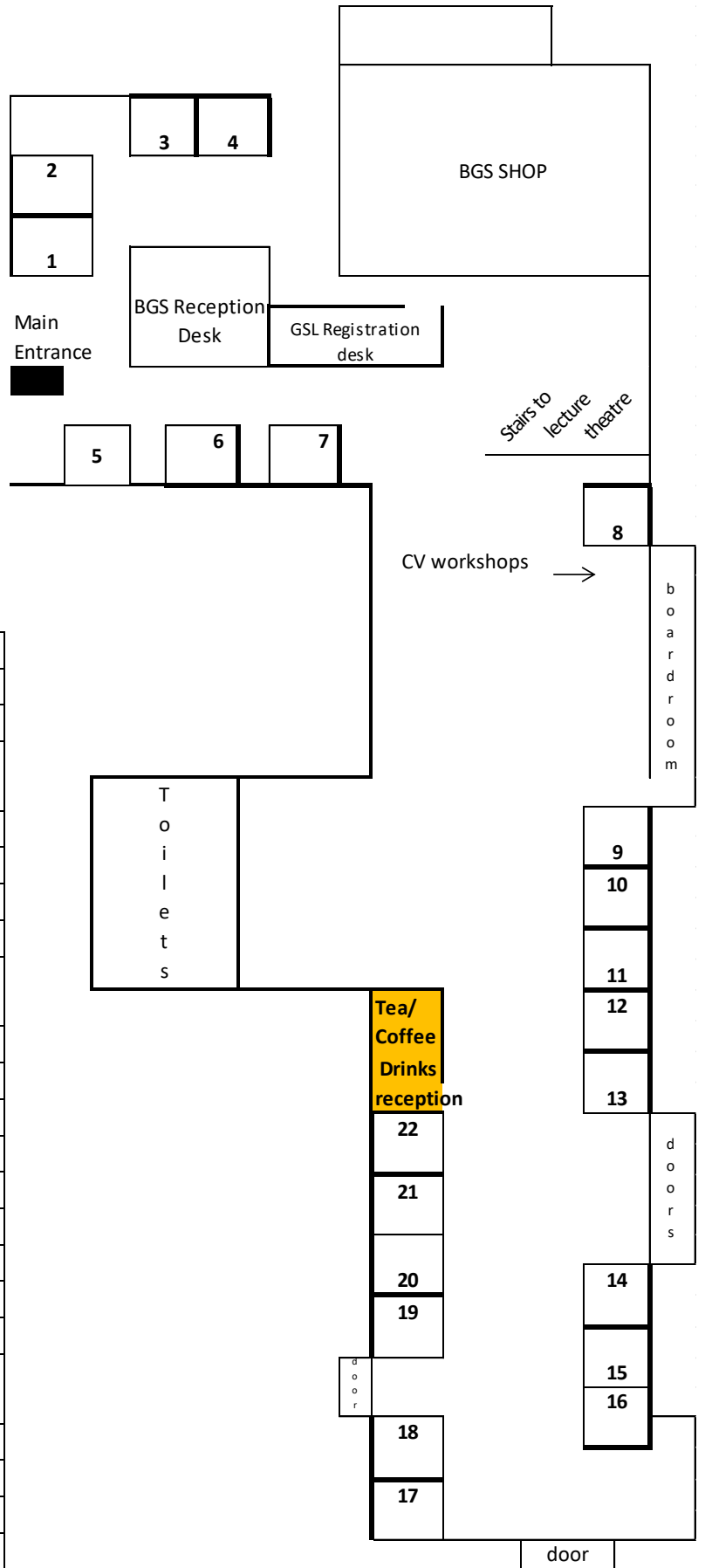
[https://www.hw.ac.uk/schools/energy-geoscience-infrastructure-](https://www.hw.ac.uk/schools/energy-geoscience-infrastructure-society/research/ige.htm)

[society/research/ige.htm](https://www.hw.ac.uk/schools/energy-geoscience-infrastructure-society/research/ige.htm)

We are a leading Centre of Excellence in GeoEnergy Engineering and Applied Geoscience, recognised for the quality of our teaching, training, and research. Our activities build on our proud heritage of integrating geoscience and engineering to understand the subsurface for the benefit of the energy industry. We pioneer world-class research and training cross a broad range subsurface energy challenges, encompassing oil and gas, carbon capture and storage, geothermal energy, and renewable energy storage to deliver innovation for the low-carbon transition, sustainable energy, and responsible resource management. We offer a range of postgraduate opportunities, all uniquely tailored to the wider energy industry, in a dynamic, multidisciplinary environment which provides a stimulating place for learning and research.

We are based in the main Heriot-Watt University campus in Edinburgh, the beautiful capital city of Scotland, but we are a truly international institution with teaching and research work carried out across the globe.

# EXHIBITION FLOORPLAN - GROUND FLOOR



Stand #	Exhibitor
1	University of Derby
2	St Andrews University
3	School of GeoScience – The University of Edinburgh
4	British Geological Survey
5	Schlumberger
6	The Geological Society
7	Petroleum Group
8	Royal Holloway University of London
9	Radioactive Waste Management
10	Open University
11	Heriot-Watt University
12	University of Leicester
13	Environment Agency
14	CC Ground Investigations Limited
15	University of Birmingham
16	Geotechnics
17	University of Manchester
18	Earth Science Teachers Association
19	University of Liverpool
20	The Institute of Quarrying
21	RSK
22	Imperial College



# School of Geosciences

Benefit from research led teaching, easy access to superb natural environments and strong industry links at the University of Aberdeen, an excellent choice for your postgraduate studies.

## MSc Geophysics

Provides professional level geophysics training using world class facilities. Students benefit from individual industry mentorship and learn essential geophysical skills for careers in oil and gas, mineral exploration, environment/hazards or PhD research.

[www.abdn.ac.uk/pgt/geophysics](http://www.abdn.ac.uk/pgt/geophysics)

## MSc Integrated Petroleum Geoscience

Running since 1973, and recognised as one of the leading courses of its kind in the world, this industry led programme provides world-renowned training in the practical and technical skills required by the global hydrocarbon exploration and production industry.

[www.abdn.ac.uk/ipg](http://www.abdn.ac.uk/ipg)

## MSc Oil And Gas Enterprise Management

Provides broad training in oil industry matters by focussing on all aspects of the oil and gas lifecycle, including essential aspects of commercialisation, economics and law, as well as an understanding of how science and technology can be applied to improve hydrocarbon exploration success and recovery.

[www.abdn.ac.uk/ogem](http://www.abdn.ac.uk/ogem)

## MSc Petroleum Data Management

Developed with input from industry partners, including Chevron, Shell and Total, this programme provides you with job-ready expertise to move into the advanced data management roles that will meet the growing demand and expectations of the global oil and gas industry.

[www.abdn.ac.uk/pgt/pdm](http://www.abdn.ac.uk/pgt/pdm)

## MSc Geographical Information Systems

Building on over 30 years of excellence in postgraduate teaching of GIS, remote sensing, visualisation, digital mapping and cartography, this programme combines geospatial technologies, programming, practical skills and environmental applications.

[www.abdn.ac.uk/pgt/gis](http://www.abdn.ac.uk/pgt/gis)

### Find out more

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