# University of Birmingham

## Academic staff

### Dr Nicholas Barrand (/schools/gees/people/profile.aspx?ReferenceId=53706)

**Lecturer in Geosciences**

Nick is a glaciologist, specialising in mass balance and dynamics of the Earth's glaciers and ice sheets. His research aims to understand how and why Earth's land ice cover is changing and the impact of these changes on global sea levels. This research involves application and analysis of airborne and satellite remote sensing tools, in situ measurements and numerical models.

### Dr Rebecca Bartlett (/schools/gees/people/profile.aspx?ReferenceId=3646)

**Lecturer in Biogeochemistry**

### Dr Lesley Batty (/schools/gees/people/profile.aspx?ReferenceId=3939)

**Senior Lecturer in Environmental Science**

Lesley Batty is a Senior Lecturer in Environmental Science (teaching focussed) and brings her enthusiasm and expertise in this area to all aspects of her work. She is also Senior Tutor for GEES, responsible for ensuring that all our students have a great experience during their studies in the School.

She has a particular interest in the ecology of industrial ...

### Melanie Bickerton (/schools/gees/people/profile.aspx?ReferenceId=3947)

**Project Officer Environmental Science**

### Dr Chris Bradley (/schools/gees/people/profile.aspx?ReferenceId=3964)

**Senior Lecturer**

Chris has been a lecturer in Geography and Environmental Science at the University of Birmingham from 1994 and became Senior Lecturer from 2007.

### Dr Julian Clark (/schools/gees/people/profile.aspx?ReferenceId=9222)

**Senior Lecturer**

Julian Clark researches the political geographies of Europe, the governance of natural resources, and the interrelations between political geography and political science. He has written widely on political geography and environmental governance, and has research monographs published with Oxford University Press and Routledge.

### Dr Mark Cuthbert (/schools/gees/people/profile.aspx?ReferenceId=10872)

**Marie Curie Research Fellow**

Mark Cuthbert's research, into process fundamentals in subsurface hydrology and paleohydro(geo)logy, is currently focussed on groundwater sustainability in drylands, improving interpretations of speleothem climate proxy archives and exploring how groundwater has influenced our evolution as a species.

He currently holds a Marie Curie Research Fellowship at the ...

## Simon Dixon (/schools/gees/people/profile.aspx?ReferenceId=67778)

**Postdoctoral Research Fellow**

Simon is a fluvial geomorphology researcher who has worked on quantifying the impacts of river restoration on changing flood risk, as well as the organization and transport of wood in small rivers during floods. He is currently working on the NERC “MegaScours” project looking at river confluences in the world’s largest rivers.

## Professor Ian Fairchild (/schools/gees/people/profile.aspx?ReferenceId=9553)

**Professor of Geosystems**

Ian Fairchild is a geoscientist with broad interests in the geochemistry of the Earth’s surface, climate change and Quaternary and Neoproterozoic earth history. He employs this breadth of knowledge in teaching, in public outreach, and professional activities such as examining and research assessment. He is equally at home in the field and the laboratory with a wealth of ...

## Professor John Gunn (/schools/gees/people/profile.aspx?ReferenceId=9605)

**Honorary Professor**

John Gunn is a multi-disciplinary scientist working on a single rock – limestone – and on the karst environments that form on limestone. He is also an active speleologist and is involved in cave exploration and underground research. His research interests include: the hydrogeology of karst (particularly percolation waters, water tracing techniques and geological influences on ...

## Professor David Hannah (/schools/gees/people/profile.aspx?ReferenceId=9683)

**Head of School**
**Professor of Hydrology**

(/university/colleges/les/research-gallery/david-hannah.aspx) David is a physical geographer with interdisciplinary research interests focusing on 3 complementary themes within **hydroclimatology** (interface between hydrology-climatology): (1) hydroclimatological processes within alpine, Arctic, mountain and glacierized river basins; (2) climate and river flow regimes; and (3) river energy budget and thermal dynamics. He has ...

## Dr Alan Herbert (/schools/gees/people/profile.aspx?ReferenceId=63340)

**Senior Lecturer in Radioactive Waste Disposal and Remediation**

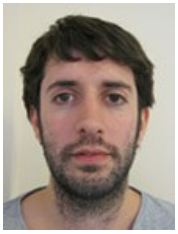
Dr Alan Herbert is a leading mathematical modeler and hydrogeologist specializing in the understanding of coupled processes and heterogeneous groundwater systems. Of particular interest are deep fractured rocks and the applications to nuclear waste disposal, geothermal energy and fracking for exploitation of shale gas resources.

## Dr Nick Kettridge (/schools/gees/people/profile.aspx?ReferenceId=33248)

**Senior Lecturer in Water Sciences**

Dr Nick Kettridge specializes in characterizing the ecohydrological resilience of ecosystems to both natural and anthropogenic disturbance. Much of his research focuses on peatlands; understanding the processes that control the provision of key ecosystem services within these environments, and quantifying their response to changing climatic conditions and extreme events such as fire and drought.

## Kieran Khamis (/schools/gees/people/profile.aspx?ReferenceId=24314)



**Research Associate (KTP)**

Kieran Khamis is a hydroecologist with a specialist knowledge of alpine river systems. His current research is focused on the development of a real time, fluorescence-based monitoring system for surface waters.

## Dr Stefan Krause (/schools/gees/people/profile.aspx?ReferenceId=36363)

**Reader in Hydrology**

Dr Stefan Krause is a Reader in Hydrology in the School of Geography, Earth and Environmental Sciences. His interdisciplinary research group on coupled groundwater and surface water systems investigates the multifaceted impacts of global environmental change on hydrological fluxes, biogeochemical cycling and contaminant transport, and ecohydrological feedback functions in complex ...

## Dr Mark Ledger (/schools/gees/people/profile.aspx?ReferenceId=10622)

**Senior Lecturer in Ecology**

Mark is an ecologist researching environmental change in freshwaters. His research group is focused on understanding how environmental stressors and climate change, especially extreme climatic events such as floods, droughts and heat waves, affect the structure and functioning of aquatic ecosystems. His group works empirically across a range of spatial and temporal scales, from laboratory ...

## Professor John Lloyd (/schools/gees/people/profile.aspx?ReferenceId=10196)

**Emeritus Professor**

Professor Lloyd was appointed to the University of Birmingham in 1973 to set-up the Hydrogeology MSc Course and Research Group in Earth Sciences. The focus of the hydrogeology throughout has been to adopt a holistic approach to the subject. As Professor Lloyd's pre-University career was chiefly in desert environments his personal research was carried out predominantly in regional arid ...

## Professor Alexander Milner (/schools/gees/people/profile.aspx?ReferenceId=9693)

**Professor of River Ecosystems**

Professor Alexander Milner has been at the University of Birmingham for 15 years, where he was initially responsible for setting up the Environmental Science and Environmental Management degrees. He is now responsible for the Masters degree in River Environmental Management. His research involves river ecosystems in alpine and Arctic environments and has long term studies in Glacier Bay ...

## Dr Matt O'Callaghan (/schools/gees/people/profile.aspx?ReferenceId=45821)

**Research Fellow**

Dr Matt O'Callaghan is an ecologist specializing in stream and floodplain invertebrate responses to disturbance. His current research is investigating the impact of drought on the functioning of stream ecosystems, part of a NERC funded project led by Dr Mark Ledger.

## Professor Geoff Petts (/schools/gees/people/profile.aspx?ReferenceId=10186)

**Honorary Professor**

## Dr Sally Rangecroft (/schools/gees/people/profile.aspx?ReferenceId=100379)

**Research Fellow**

Sally is a physical geographer with experience and interest in interdisciplinary research on water resources, water security and climate change. Her current research with Dr Anne Van Loon is aiming to add the human dimension into drought research, a Rubicon project funded by the Dutch Science Foundation NWO.

## Mr Michael Riley (/schools/gees/people/profile.aspx?ReferenceId=10623)

**Senior Lecturer in Hydrogeology**

## Dr Michael Rivett (/schools/gees/people/profile.aspx?ReferenceId=3913)

**Senior Lecturer in Earth Sciences (Contaminant Hydrogeology)**

Dr Michael Rivett is a Senior Lecturer in Contaminant Hydrogeology in the **Water Sciences research group (/research/activity/water/index.aspx)** with a specialist field-scale research interest in the transport and remediation of organic contaminants in groundwater and contaminated land systems. He has published extensively on chlorinated solvents, DNAPLs and urban contamination and has additional on-going research interests in hyporheic ...

## Professor Jon Sadler (/schools/gees/people/profile.aspx?ReferenceId=10201)

**Professor of Biogeography**
**Head of Education**

Jon Sadler is a biogeographer and ecologist who focuses on species population and assemblage dynamics in urban and riparian environments. His research involves interdisciplinary science using a combination of detailed field studies and field experimentation. His work emphasizes the links between environmental variability and species responses, with particular emphasis on urbanisation and ...

## Dr Greg Sambrook Smith (/schools/gees/people/profile.aspx?ReferenceId=10557)

**Senior Lecturer**

Over the last 20 years Dr Sambrook Smith has been investigating the linkages between river processes and sedimentology at scales ranging from individual pores within a river bed up to km-long bars in some of the Worlds largest rivers. Research aims to generate new, generic and quantitative understanding of how rivers function across these scales. This is facilitated by ...

## Dr Neil Suttie (/schools/gees/people/profile.aspx?ReferenceId=97108)

**Research Fellow**

Neil Suttie is a geophysicist whose research interests include palaeomagnetism and the Earth's deep interior, archaeological dating, near surface geophysics, geophysical instrumentation, geomagnetism over historical and millennial timescales and magnetostratigraphy.

## Professor John Tellam (/schools/gees/people/profile.aspx?ReferenceId=10199)

**Professor of Hydrogeology**

John Tellam's main research interests are in inorganic, surface-interacting, solute and particle transport in groundwaters, with a particular emphasis on sandstone aquifers.

## Dr Anne F. Van Loon (/schools/gees/people/profile.aspx?ReferenceId=88172)

**Lecturer Physical Geography (Water sciences)**

Anne Van Loon is a catchment hydrologist and hydrogeologist working on drought. She studies the relationship between climate, landscape/ geology, and hydrological extremes and its variation around the world. She is especially interested in the influence of storage in groundwater, human activities, and cold conditions (snow and glaciers) on the development of drought.



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