University of Portsmouth

UNIVERSITY OF PORTSMOUTH

SCHOOL OF EARTH & ENVIRONMENTAL SCIENCES

Undergraduate & Postgraduate Programmes

Dave Giles
Principal Lecturer in Engineering Geology

University of Portsmouth

Portsmouth

EADS ASTRIUM

University of Portsmouth

Faculty of Science

School of Earth and Environmental Sciences

Head of School: Rob Strachan

Geoscience Programme

Applied Geoscience Programme

Environmental Science Programme

University of Portsmouth

School of Earth and Environmental Sciences

- 1963: Department of Geology *External London University geology degree*
- 1998: We became the School of Earth and Environmental Sciences
- We now run 10 undergraduate courses, 4 MSc courses
- Engineering Geology & Geotechnics celebrating 45 years in 2012

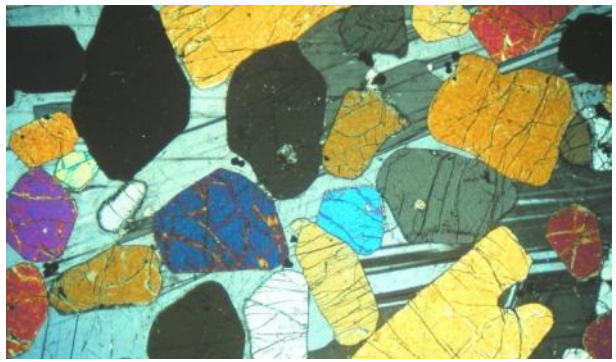
University of Portsmouth

Staff and Student profile

- c. 400 Undergraduate Students
- 60 Postgraduates (MSc and PhD students)
- 24 Academic Staff
- 15 Support Staff
- All located in Burnaby Building
- Nationally, we supply just over 6% of undergraduate geology places

Geoscience Honours Degrees

- BSc(Hons) Geology
- BSc(Hons) Palaeobiology & Evolution
- *Both courses fully accredited by the Geological Society of London*



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Applied Geoscience Honours Degrees

- BSc Geological Hazards
- BEng Engineering Geology & Geotechnics
- All courses fully accredited by the Geological Society of London

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BSc (Hons) Geological Hazards


Introduction to Geomechanics – L2


Volcanology & Seismology– L2


Geohazard Systems – L2


Geological Hazard Management & Remediation – L3


GIS & Remote Sensing – L3


Professional Practice in Geological Hazards – L3


Subsidence and Landslide Risk Assessment – L3


Independent final year project – L3

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BEng (Hons) Engineering Geology & Geotechnics


Soil Mechanics – L2


Rock Mechanics - L2


Site Investigation – L2


Design of underground spaces – L3


Geotechnical Engineering – L3


Landslide Analysis & Remediation – L3


Contaminated Land – L3


Independent final year project – L3

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Applied Geoscience Masters

- MSc Geological & Environmental Hazards

- MSc Contaminated Land

- MSc Engineering Geology

- MSc Crisis & Disaster Management

(run jointly with School of Business)

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MSc Geological & Environmental Hazards

SEES

- Geohazard Management & Remediation
- Volcanology
- Seismology

- Geoscience Risk Analysis
- Rock & Soil Mechanics
- Landslide Hazard Analysis

- Catastrophic Geological Events
- Groundwater Hydrology
- Geohazard Data Modelling
- Remote Sensing & GIS

Thesis

University of Portsmouth
School of Earth and Environmental Sciences

University of Portsmouth

MSc Engineering Geology

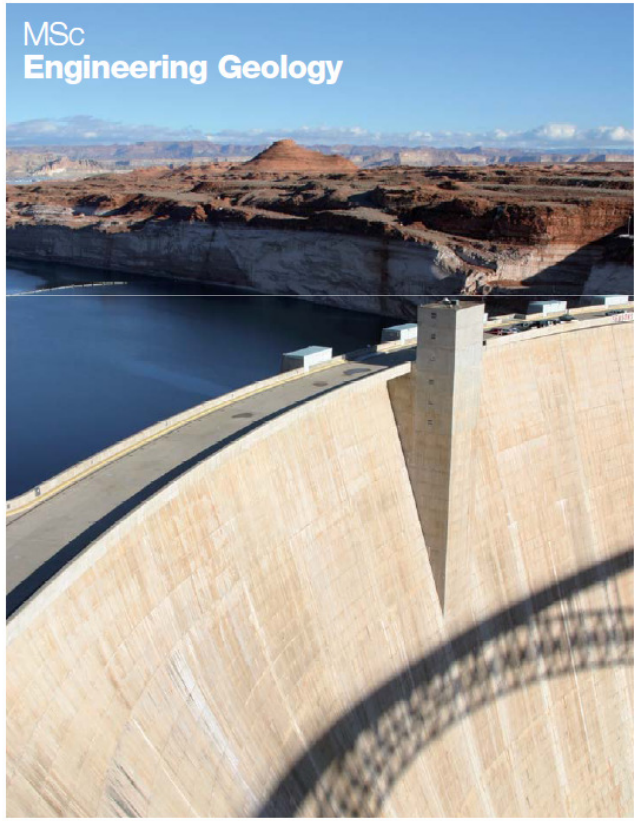
SEES

- Fundamentals of Contaminated Land
- Ground Engineering
- Ground Investigation & Assessment

- Geoscience Risk Analysis
- Rock & Soil Mechanics
- Landslide Hazard Analysis

- Rock Engineering
- Engineering Geomorphology
- Geohazard Data Modelling
- Remote Sensing & GIS

Thesis



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School of Earth and Environmental Sciences

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MSc Contaminated Land

SEES

- Fundamentals of Contaminated Land
- Chemistry of Contamination & Pollution
- Ground Investigation & Assessment

- Geoscience Risk Analysis
- Principles of Soil Behaviour
- Groundwater Management & Protection

- Topics in Applied Geosciences
- Waste Disposal & Remediation
- Environmental Auditing & Assessment
- Remote Sensing & GIS

Thesis

University of Portsmouth
School of Earth and Environmental Sciences

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MSc Crisis and Disaster Management

SEES

- Hazards, Vulnerability, Risk and Disasters
- Organisational Risk
- Project Risk

&

- Business Continuity and Crisis
- Management
- Crisis management Study Visits

BS

- Techniques for Disaster Management
- Natural Disasters
- Financial Planning for National Disaster
- Research Methods

Thesis

University of Portsmouth
School of Earth and Environmental Sciences

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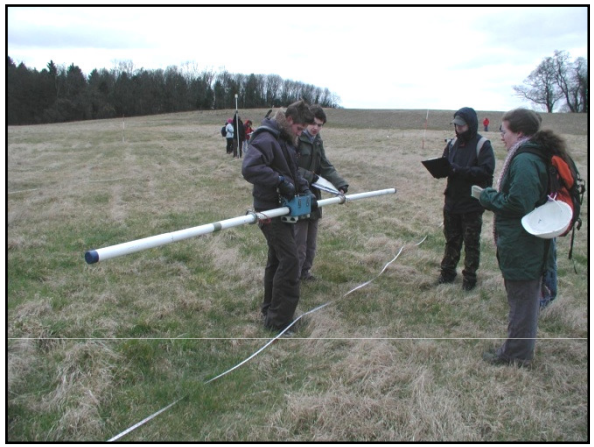
Fieldwork

Current programme

- Central Spain
- SE Spain
- Isle of Wight
- Cyprus
- Germany
- Italy
- Hong Kong
- Cornwall
- Scotland
- Greece
- French Alps
- Provence
- etc



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Masters Overseas Study Tours

MSc Engineering Geology (EG)

Hong Kong	Jan 20101	Engineering geology study tour to Hong Kong.

MSc Geological and Environmental Hazards (GEH)

Italy	May 2011	Volcanic and seismic hazard study tour around Etna Sicily.

MSc Contaminated Land (CL)

Cyprus	April 2011	Environmental study tour, land contamination and associated environmental problems.

MSc Crisis and Disaster Management (CDM)

Italy	March 2011	Crisis management issues around Vesuvius Bay of Naples region, Italy.

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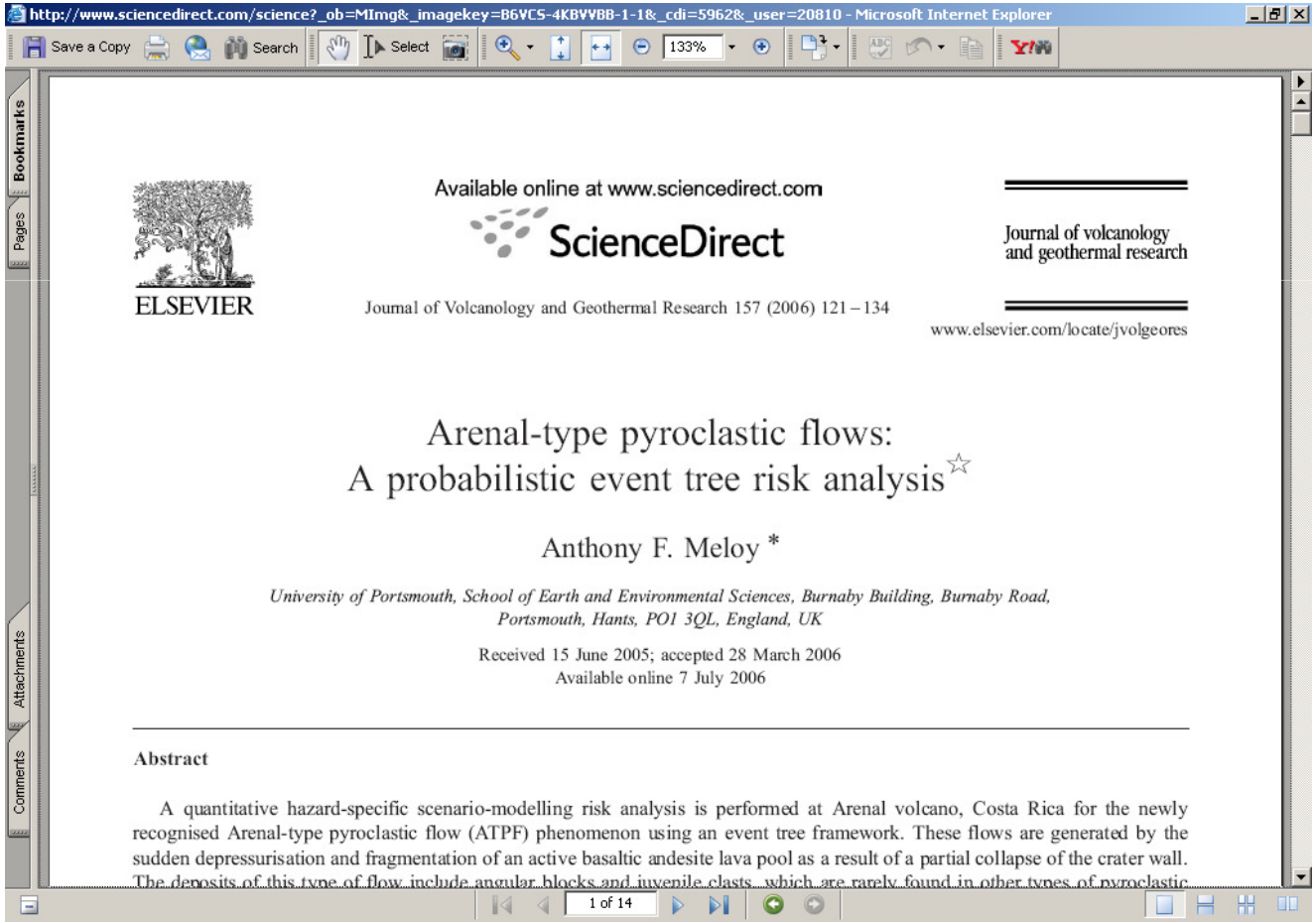
Dissertation projects

- Previous students have published the results from their research project in peer reviewed journals.



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Journal of volcanology and geothermal research

ELSEVIER

Journal of Volcanology and Geothermal Research 157 (2006) 121–134

www.elsevier.com/locate/jvolgeores

Arenal-type pyroclastic flows: A probabilistic event tree risk analysis ☆

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Available online 7 July 2006

Abstract

A quantitative hazard-specific scenario-modelling risk analysis is performed at Arenal volcano, Costa Rica for the newly recognised Arenal-type pyroclastic flow (ATPF) phenomenon using an event tree framework. These flows are generated by the sudden depressurisation and fragmentation of an active basaltic andesite lava pool as a result of a partial collapse of the crater wall. The deposits of this type of flow include angular blocks and juvenile clasts, which are rarely found in other types of pyroclastic

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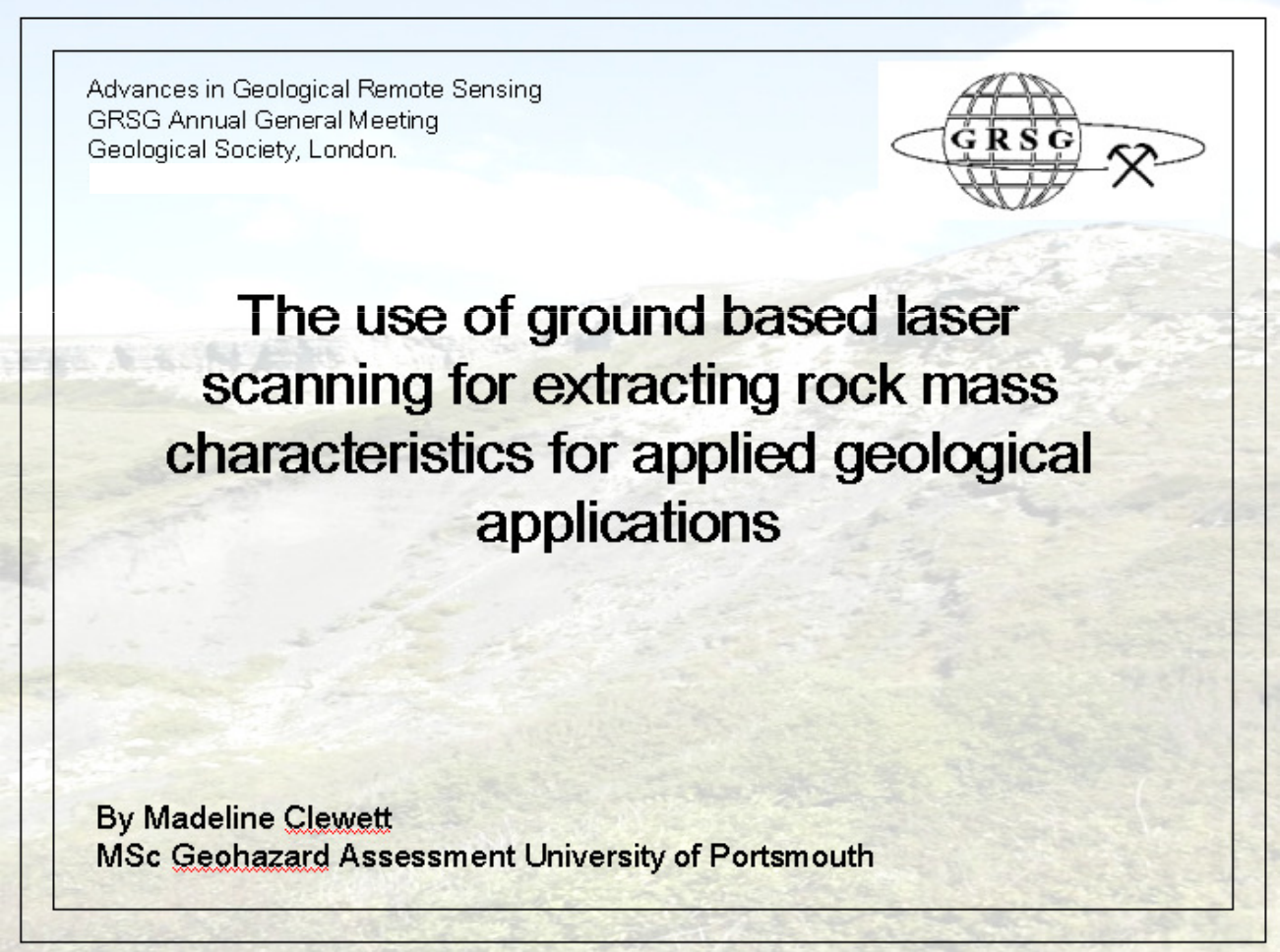
Dissertation projects

- We encourage students to present the results from their research project at local conferences.



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Further Details

www.port.ac.uk/geology

Earth and Environmental Sciences (SEES)