

### GEES Subject Centre links

#### GEES Guides

- **Teaching Geosciences through Fieldwork** – Rob Butler  
<http://www.gees.ac.uk/pubs/guides/eesguides.htm#fwgeosciguide>
- **Designing Effective Fieldwork for the Environmental and Natural Sciences**  
- John Maskall and Alison Stokes  
<http://www.gees.ac.uk/pubs/guides/eesguides.htm#fwgeosciguide>

#### GEES Subject Centre funded small-scale projects 2001- 2009

The following projects can be found at: <http://www.gees.ac.uk/funding/funding.htm>

Ethnic identities and positioning 'in the field': identifying key issues for the GEES subjects – Annie Hughes, 2010

Location, location, location: the application of mediascapes to Geographical fieldwork – Richard Jones, 2009

Virtual Alps: virtual fieldwork on glacial & fluvial processes – Tim Stott, 2007

e-Learning or a-Gimmick? Evaluating the use of rich media in Geography fieldwork – Richard Jones, 2006

Field safety training for staff in Geography, Earth and Environmental Sciences in HE: establishing a framework – Pauline Couper, 2005

Student Publishing of Fieldwork Geography - John H. McKendrick, 2002

#### Planet Articles (2001-2009)

The following articles can be found by visiting: <http://gees.ac.uk/pubs/planet/index.htm>

Couper, P. and Stott, T. 2006 Field safety training for staff in geography, earth and environmental sciences in HE: establishing a framework, *Planet*, 16, pp 4-8

Edwards, S. 2003 Examples of Integrating Field-based Research and Teaching in Geography, Earth and Environmental Sciences, *Planet*, Special Edition 5, pp 19-21

Fletcher, S., France, D., Moore, K., Robinson, G. 2002 Fieldwork Education and Technology: A GEES Perspective, *Planet*, 4, pp 17-19

Giles, D., Whitworth, M. and Poulson, A. 2008 The Development of Fieldwork Problem-Based Exercises in the Applied Geosciences, *Planet*, 20, pp 37-41

Healey, M., Roberts, C., Jenkins, A. and Leach, J. 2002 Disabled Students and Fieldwork: Towards Inclusivity?, *Planet*, 3, pp 9-10

Hill, J., Woodland, W. and Spalding, R. 2004 Linking Teaching and Research in an Undergraduate Fieldwork Module: a case study, *Planet*, 13, pp 4-7

James, P., Heinson, G. and Schmidt, A. Mumm 2003 Linking teaching and research in the

undergraduate fieldwork training programme at the University of Adelaide, *Planet*, Special Edition 5, pp 16-18

Jarvis, C. and Dickie, J. 2009 Acknowledging the 'forgotten' and the 'unknown': The role of video podcasts for supporting field-based learning, *Planet*, 22, pp 61-63

Mackenzie *et al.* 2003 The use of C&IT to support fieldwork teaching and assessment at the University of Derby, *Planet*, 5, pp 11-14

Maskall, J., Stokes, A., Truscott, J., Bridge, A., Magnier, K. and Calderbank, V. 2007 Supporting fieldwork using information technology, *Planet*, 18, pp 18-22

McCaffrey, K., Holdsworth, R., Clegg, P., Jones, R. and Wilson, R. 2003 Using Digital Mapping Tools and 3-D Visualisation to Improve Undergraduate Fieldwork, *Planet*, Special Edition 5, pp 34-37

McCarthy, J. 2003 Overseas fieldwork and learning for spatial planning: a case study, *Planet*, 10, pp 10-12

Newman, J. and Jones, R. 2008 E-Learning or a-Gimmick? Evaluating the use of rich media in Geography fieldwork, *Planet*, 20, pp 47-51

Rumsby, B. and Middleton, R. 2003 Using C & IT to Support Fieldwork on Tenerife, *Planet*, 5, pp 4-6

Sanders, M. and Nimmo, M. 2001 Developing 'Field-Sim': Software to support Fieldwork, *Planet*, 1, pp 6-7

Smith *et al.* 2002 A CD-based courseware package for the teaching and consolidating of geological field skills, *Planet*, 4, pp 10-12

Stott, T., Nuttall, A.-M. and McCloskey, J. 2009 Design, development and student evaluation of a Virtual Alps Field Guide, *Planet*, 22, pp 64-72

Stott, T. 2007 Evaluation of low-cost Personal Digital Assistants (PDA) for field data collection and fieldwork leadership by students and staff, *Planet*, 18, pp 12-17

Suggitt, S. 2003 Field Research and Teaching – an Enhancement of Student Learning, *Planet*, Special Edition 5, pp 26-28

Thorndycraft, V., Thompson, D. and Tomlinson, E. 2009 Google Earth, virtual fieldwork and quantitative methods in Physical Geography, *Planet*, 22, pp 48-52

Walters, G. 2003 Field courses provide European diversity at low cost, *Planet*, 6, pp 22-24

### **Case Studies of Interesting Learning, Teaching and Assessment Practices in Geography, Earth and Environmental Sciences in Higher Education**

The following case studies can be found by visiting: <http://goodpractice.gees.ac.uk/>

A Novel Technique to Provide Basic Fieldwork Skills to Large Numbers of First Year Undergraduates  
A Student's First Encounter with Geoscience Fieldwork - Making it an Effective Learning Experience  
Effective Teaching in the Field: IMAGE, the Future for Geological Fieldwork?  
Fieldwork and the Open University  
Group Projects: an Effective Fieldwork Teaching Strategy  
Policy-Related Fieldwork for First Year Students  
Self-paced Distance Learning Packages for Large Group Fieldwork  
Student Publishing of Fieldwork Geography (StuP) project: The Caledonian/Bute Partnership  
The Expedition Approach to Independent Fieldwork  
Use of Virtual Fieldtrips in Earth Sciences  
Virtual Fieldwork in Geography  
Virtual Montana, Trans-national fieldwork

## **Other GEES (and GEES-Related) Resources**

### **Websites**

The LTSN GEES Pedagogic Research and Fieldwork Programme  
<http://www.gees.ac.uk/pedresfw/pedresfw.htm>

West's Geology Directory  
<http://www.soton.ac.uk/~imw/> Includes Field Guides to the Dorset and Hampshire area.

Geological Society code for fieldwork  
<http://www.geolsoc.org.uk/gsl/education/page2542.html>

Geography Discipline Network (GDN)  
<http://www2.glos.ac.uk/gdn/>  
The website includes links to a number of related projects, including *Learning Support for Disabled Students Undertaking Fieldwork and Related Activities*, available for download, which includes a section on *Virtual Field Course: part of the 'solution' or side-stepping the 'problem'?* and links to the list of abstracts for the Journal of Geography in Higher Education (JGHE). Also contains *Case Studies of Interesting Teaching, Learning and Assessment Practices in Geography, Earth and Environmental Sciences in Higher Education*.

Virtual Field Course project  
<http://www.le.ac.uk/gg/>  
The Virtual Field Course project aims to provide computer-based support for fieldwork and a visual environment for exploring spatially referenced information.

Fieldwork Education and Technology (FEET)  
<http://www.gees.ac.uk/pedresfw/citfw/fetwkshp.htm>  
Resources from the FEET (Fieldwork Education and Technology) Project, including abstracts, Powerpoint presentations and web links from the project workshop. The FEET Project is part of the LTSN GEES Pedagogic Research and Fieldwork Programme.

Benchmarks for Geography, Earth and Environmental Sciences

<http://www.qaa.ac.uk/>

Available from the QAA website. Also available with examples of programme specifications from the GDN website at <http://www2.glos.ac.uk/gdn/>.

### **Books**

AUCL (Association of University and College Lecturers) 1994 *Guidelines and Code of Practice for Fieldwork, Outdoor and other Off-Campus Activities as part of an Academic Course*, 1<sup>st</sup> Edition

Gold, J.R. et al. 1991 *Teaching Geography in Higher Education: a manual of good practice*, Oxford, Basil Blackwell Ltd

King, H. (Ed.) 1997 *Proceedings of the UK Geosciences Fieldwork Symposium*, ESTA Occasional Series No 2

King, H. (Ed.) 1999 *A Staff Resource Book to Support Earth Sciences Learning and Teaching in Higher Education*, Chapter 5: Effective Learning in the Field, FDTLI Earth Science Staff Development Project

Livingstone, I., Matthews, H. and Castley, A. 1998 *Fieldwork and Dissertations in Geography*, GDN Dissemination of Good Teaching, Learning and Assessment Practices in Geography Series

Manning, M. et al. 1998 *Learning in the field: a manual for conducting field classes*, HERDSA Gold Guide No. 5

Williams, C., Griffiths, J. and Chalkley, B. 1999 *Fieldwork in the Sciences*, FDTLI SEED Project

Williams, C. et al. 1999 *Geological Field Teaching using Discovery Techniques*, FDTLI SEED Project

### **Articles**

Bradbaer, J. 1996 Problem-based Learning and Fieldwork: a better method of preparation? *Journal of Geography in Higher Education*, 20, 1, pp. 11-18

Cingham, C., Healey, M. and Gravestock, K, P. 2001 *Fieldwork in the geography, earth and environmental sciences higher education curriculum: an annotated bibliography*, Cheltenham, Geography Discipline Network

Dalton, R.T. 2001 What do they bring with them? The fieldwork experiences of undergraduates on entry into higher education, *Journal of Geography in Higher Education*, 25, 3, pp 379-393

Kent, M., Gilbertson, D.D., and Hunt, C.O. 1997 Fieldwork in Geography teaching: a critical review of literature and approaches, *Journal of Geography in Higher Education*, 21, 3, pp 313-332

Fuller, I., Rawlinson, S. and Bevan, R. 2000 Evaluation of Student Learning Experiences in Physical Geography Fieldwork: paddling or pedagogy? *Journal of Geography in Higher Education*, 24, 2, pp 199-125

Higgitt, D. and Bullard, J. 1999 Assessing fieldwork risk for undergraduate projects, *Journal of Geography in Higher Education*, 23, 3, pp 441-449

Nash, D.J. 2000 Doing Independent Overseas Fieldwork I: practicalities and pitfall, *Journal of Geography in Higher Education*, 24, 1, pp 139-149

Ternan, L., Chalkley, B. and Elmes, A. 1999 New developments in fieldwork. *SEED Working Paper Series*, 4 & 5.

- Working Paper 4: 'Long Haul Field Courses: Lessons from the Plymouth Experience'.
- Working Paper 5: 'The Large Residential Field Course: Management, Educational & Student Perspectives' ((SEED Publications @ University of Plymouth)