

BRUCE M. GITTINGS B.Sc., M.Sc., FSA Scot

Member of Council Royal Scottish Geographical Society
Former Member of Council of the Association for Geographic Information (AGI)
Founder Member of AGI Scotland and Member of Executive Board
Member of the GI Gateway Advisory Board (UK GI Metadata Service)
Chair of the National Steering Committee of the GIS Research UK Conference Series
Also member of RSGS Library & Information Committee, *Images for All* Project Management Group (Heritage Lottery-funded) and RSGS Marketing Group.
Previously Chair of AGI Internet Management Group and a member of the Direct Action and Education, Training & Research Committees of the AGI, the Confederation of Scottish Local Authorities (COSLA) GIS Forum and the Advisory Committee of the Registers for Scotland (at the invitation of the Secretary of State for Scotland).

Roles:

Member of the academic staff of the School of GeoSciences at the University of Edinburgh (1986 -). Chair of Exam Board, External Relations Co-ordinator and Teaching Committee of M.Sc. in Geographical Information Science. Responsible for teaching GIS, Database Management and Technology courses to post-graduate and senior undergraduate students. Supervisor of more than 120 M.Sc. and Ph.D. and M.Phil theses. Internal and external examiner at postgraduate level. Co-ordinator of short course training programmes. Director of the Parallel Architectures Laboratory for GIS (with other investigators have attracted in excess of £2M in equipment and research funding).

Active research interests include gazetteer services, place-name issues, internetworked GIS and the World-Wide Web, the implementation of GIS in parallel and multi-processing environments, GIS performance, GIS usability issues, metadata databases and terrain modelling. Publications are in these areas, and also in relation to GIS education.

Experienced consultant, working with a number of organisations. I have acted as an advisor to the British Council, teaching in Thailand, and a professional advisor to the University of West Indies and the University of Hong Kong. Invited lectures delivered in California, Utah, Virginia (USA), Ontario (Canada), Bangkok (Thailand). Regular speaker in RSGS public lecture programme.

Relevant Skills and Experience:

Project management, running sizeable research projects and budgets. Communication skills, public speaking, report writing, technical writing.
Web pioneer, with a detailed understanding of the technology and its application through leading web sites such as "The World-Wide Earthquake Locator" and "The Gazetteer for Scotland".
Expert of Geographical Information Science
Comprehensive understanding of the Geography of Scotland

Selected Publications:

with D.M. Munro (2006) 'Scotland: An Encyclopaedia of Places and Landscapes', Harper Collins, Glasgow.

with Batcheller, J.K. and Dowers, S. (in press) The Performance of Vector Oriented Data Storage Strategies in ESRI's ArcGIS, Transactions in GIS

with Newton, A.J. and Dugmore, A.J. (in press) Tephrobase: an example of a centralised tephrochronological database, Journal Quaternary Science

- with Dunfey, R.I. and Batcheller, J.K. (2006) Towards an Open Architecture for Vector GIS, *Computers & Geosciences* 32(10) p.1720-1732
- with Dowers, S. and Mineter, M.J. (2000) Towards a framework for High Performance Geocomputation, *Computers, Environment and Urban Systems* (in press)
- with Hill, C. and Jamieson S.S.R. (2004) *An Introduction to the Oracle Relational Database Management System*, School of GeoSciences, University of Edinburgh, Edinburgh, 5th edition, 234pp
- (1999) 'Integrating Information Infrastructures with Geographic Information Technology', *Innovations in GIS 6*, Taylor & Francis, London.
- with A.N. Pradhan (1999) 'Web-based Geospatial Data Conversion Tools', Chapter in *Innovations in GIS 6*, edited by Bruce M. Gittings. Taylor & Francis.
- with R.G. Healey, S. Dowers and M.J. Mineter (1998) 'Parallel Processing Algorithms for GIS', Taylor & Francis, London.
- with A.J. Newton and N. Stuart (1997) 'Designing a Scientific Database Query Server using the World-Wide Web: the example of Tephabase', Chapter in *Innovations in GIS 4*, edited by Dr. Z. Kemp. Taylor & Francis.
- (1996) 'The Superhighway' in *Geographic Information* 6(3), July, 1996.