Geography & Geosciences Features

- The School incorporates the Department of Geography and Sustainable Development and the Department of Earth Sciences and has 40 permanent academic staff, 4 teaching fellows, 28 support staff, 20 research fellows and 49 research postgraduate students.
- We admit up to 15 research postgraduates (PhD) and approximately 30 taught postgraduates (MSc/MRes) each year.
- New MRes in Human Geography introduced in 2012 (ESRC approved for 1+3 studentships).
- Wide range of expertise with particular strengths in health and population geography, Quaternary (ice age) and glacial studies, urban and historical geography, housing and labour markets, biogeography, oceanography, and environmental management.
- Strengths in Earth Science research related to the co-evolution of Earth and Life, development of the continental crust, and interpreting the influence of tectonic and climate change on the development of sedimentary systems from the Precambrian to the present.
- In the most recent Research Assessment Exercise Geography and Geoscience research was rated ‘world leading’ and top in Scotland (see opposite).
- Excellent in-house laboratory, IT and field resources for teaching and research.
- Emphasis on a range of different skills producing highly literate and numerate graduates with excellent employment prospects.
- New Centre for GeoInformatics opened in 2012.
- The Administrative Data Liaison Service (ADLS) offers advice on access to administrative data.
- The Centre for Housing Research (CHR) carries out policy-relevant research on social and supported housing.
- The Centre for Population Change (CPC) is an ESRC-funded demography research centre.
- The School is home to the Facility for Earth and Environmental Analysis (FEEA).
- The Longitudinal Studies Centre (LSC) is involved in strategic demographic, socioeconomic and health research.
- The School is a partner in the Scottish Alliance for Geosciences, Environment and Society (SAGES).
- The St Andrews Sustainability Institute (SASI) co-ordinates interdisciplinary research into sustainable development.
- The Social Dimensions of Health Institute (SDHI) specialises in interdisciplinary health research.
- The School is a partner in the Scottish Oceans Institute (SOI).
Postgraduate Programmes
www.st-andrews.ac.uk/gg/prospective

MRes (Taught One Year):
Human Geography
Sustainable Development

MSc (Taught One Year):
Sustainable Development

MPhil (Two Years) and PhD (Three Years)
Research degrees

For all Masters degrees there are exit awards available that allow suitably-qualified candidates to receive a Postgraduate Certificate or Postgraduate Diploma.

Class Sizes:
All PhD students have two supervisors and individual supervision. Class sizes for the MRes/MSc in Sustainable Development range from 5 to 30 students on core and option modules, with individual supervision for dissertations.

Entering the School, you will be joining an active, vibrant and expanding research community. We offer PhD and MPhil research degrees in Geography, Sustainable Development and Earth Sciences, and MSc and MRes courses in Sustainable Development and Human Geography.

New MRes course in Human Geography
A new MRes course in Human Geography was introduced in 2012 to allow postgraduate students to undertake Masters training before proceeding to a PhD programme (the ESRC’s 1+3 model). Students take 120 credits in taught modules and complete a 60-credit dissertation. Taught modules include both skills training and coursework, and the programme can be tailored to the interests of individual students. Funding is available through a variety of channels including research councils, research contracts and University scholarships. Postgraduates are provided with dedicated workspace and computing facilities, and have access to financial support for fieldwork and attendance at conferences. Most take the opportunity to participate in undergraduate teaching.

“During my undergraduate studies at St Andrews I caught the ‘research bug’, so being able to stay on to study for a PhD in human geography was a fantastic opportunity. My PhD research project has been greatly enhanced by the School’s strengths in population and urban geography, as well as quantitative research methods. Overall, the wide range of research interests and expertise within the School make St Andrews an excellent place to study human geography in a stimulating and supportive environment.”

RORY
Durham, Co. Durham, England
BSc(Hons) St Andrews, Current PhD student
We currently have postgraduate students from across the globe. They are a vital part of the life of the School and contribute in many ways, not least in the widening and deepening of experiences brought to the learning environment. Groups and individuals within the School collaborate actively with several overseas universities, and there may be opportunities for postgraduates to spend time abroad while studying for a higher degree.

**GRADskills – enhancing researchers’ skills and employability**

PhD and MPhil research students at St Andrews have access to GRADskills, an extensive and award-winning generic skills development programme for early stage researchers. It aims to support doctoral students and research staff in developing transferable skills to enhance their research capabilities and improve their future employability. The design of GRADskills has taken account of recommendations from the UK Research Councils, as well as current postgraduates, postdoctoral fellows and academic supervisors. All of the provision is mapped against Vitae’s Researcher Development Framework.

The high quality of the programme is maintained by using expert trainers, consultants and other professionals to provide a wide range of courses, workshops, symposia, conferences, study visits and other events. Participation in GRADskills also enables postgraduates to take advantage of additional opportunities offered in collaboration with ‘Vitae’ and other external organisations. Further details of the GRADskills programme are available at:

www.st-andrews.ac.uk/capod/students/pgresearch/

**Postgraduate Research in Human Geography**

Human Geography at St Andrews offers you supervised PhD or MPhil research degrees in all areas of staff expertise. Current Human Geography research in the School concentrates on the overlapping themes of population, health and housing. Research on these themes is conducted in many areas of the world including the UK, Eastern and Western Europe, North America, South-East Asia and Southern Africa. We are also involved in the public policy arena, producing advisory reports for key public institutions. We have had many research proposals funded by the Economic and Social Research Council, the Wellcome Trust, the Joseph Rowntree Foundation, Leverhulme, and other research-funding organisations.
Research work in Human Geography at St Andrews is focused on the Population, Health and Welfare Research Group and is facilitated by collaboration with other social science colleagues in St Andrews and in other institutions. It also benefits greatly from the presence of a growing number of contract research staff associated with funded research projects. There are strong links with staff at the National Records of Scotland and with medical researchers in St Andrews and Dundee.

Current staff research on population, health and housing issues includes:

- global demographic convergence
- post-transitional fertility in developing countries
- geographies of fertility and family formation
- analysis of longitudinal data
- replacement migration in Britain and Europe
- migration and gender
- statistical models of migration
- international student mobility
- gangmasters and international labour recruitment
- population mobility in relation to environmental change
- impact of contemporary population policies in Asia
- wellbeing of ‘left-behind’ children in South-East Asia
- geography of health inequalities
- relationships between population, environment and disease
- gender relations and HIV/AIDS
- health geography and governance of risk in chronic illness
- STIs and blood donation
- geographies of war and armed conflict
- geographies of decolonisation
- disease-specific measures of deprivation
- social inclusion/exclusion and housing, homelessness and social welfare
- neighbourhood effects and neighbourhood change
- house price analysis
- Housing Associations and the Big Society
- housing wealth and asset-based welfare
- GIS and spatial data analysis
ESRC-funded research initiatives include two projects on fertility and migration issues within the Centre for Population Change and two census development programme projects on manipulating and delivering migration and commuting data to the academic community. Qualitative research is also a strength in the group and innovative participatory diagramming methods of data collection have been applied to investigate the relationships between gender roles and AIDS transmission in rural Zimbabwe. Under the auspices of the Centre for Housing Research, work is currently being conducted into the role of housing in social exclusion, housing and care in the community, and the provision of social housing in England and Scotland. The School has links with the Social Dimensions of Health Institute, a joint venture between St Andrews and Dundee, which draws on their complementary expertise in the fields of health and social science.

Recent and current postgraduate research in Human Geography includes studies of social exclusion and housing, visualisation of health and deprivation data, the geography of diabetes and deprivation, children’s understanding of HIV/AIDS in Zimbabwe, health care planning in India, informal care for older people, NHS funding allocation to rural areas, education and the community, the geography of liver disease, city planning in Ghana, the analysis of hospital admissions data, the diaspora of Palestinian Christians, fertility and the housing market in Scotland and non-labour market implications of family migration.

Beyond these areas of substantive research, staff at St Andrews have published work on postmodernism and on multi-method research, as well as on more general philosophical issues. Such themes are a constant part of our topical research, and you are encouraged to engage in reading and debate on how and why we conduct research.
Examples of Research Centres in Human Geography

The Centre for Housing Research (CHR) ([http://ggsrv-cold.st-andrews.ac.uk/chr](http://ggsrv-cold.st-andrews.ac.uk/chr)), directed by Professor Duncan Maclennan, includes postgraduates working on housing and neighbourhood-related topics. CHR has four main workstreams:

i) Housing Market Analysis at Local and National Scales;
ii) Neighbourhood Dynamics and effects;
iii) The Changing Organisation of Social Housing; and
iv) Data Systems, Data and Evidence for Housing Policies.

The Longitudinal Studies Centre – Scotland (LSCS) ([www.lscs.ac.uk](http://www.lscs.ac.uk)), directed by Dr Chris Dibben is the first research centre in Scotland specifically designed to undertake and support longitudinal population analysis. The LSCS hosts the Scottish Longitudinal Study (SLS), a database containing a 5.3 per cent sample of the Scottish population. The strategic socio-economic research undertaken by this Centre is directly relevant to the Scottish economy, academic endeavour and the nation’s health. A number of research fellows and PhD students are working in the LSCS.

The Centre for Population Change (CPC) ([www.cpc.ac.uk](http://www.cpc.ac.uk)) is a collaboration between a consortium of Scottish universities and the University of Southampton. Professor Elspeth Graham is a co-director and leads the Scottish group. The Centre draws on expertise from a number of academic disciplines and from the National Records of Scotland and the Office for National Statistics to address four main themes:

i) Dynamics of fertility and family formation, past, present and future;
ii) Household dynamics and living arrangements across the life course;
iii) The demographic and socio-economic implication of national and transnational migration;
iv) Modelling population growth and enhancing the evidence base for policy.

A new research Centre for Geoinformatics, led by Professor Stewart Fotheringham, has recently been established to provide a context for innovative research on all aspects of the capture, processing, analysis and display of spatial data.
Research Facilities and Training in Human Geography
These include a variety of data-logging equipment suitable for library and archive use. Excellent GIS hardware and software (Arcview, Arcinfo, Mapinfo) resources are available with good access to census information, Ordnance Survey and other digital databases. The School has safe setting facilities for the analysis of restricted and sensitive data. There is a wide range of software available for both quantitative and qualitative data analysis (e.g. NVivo, SPSS, Stata, MLn, Minitab, SpaceStat plus database management and spreadsheet packages).

If you arrive without formal postgraduate training in the methods and philosophy of Geography and the Social Sciences you will be enrolled in the interdisciplinary modules that include: philosophy of the social sciences, being a social scientist, qualitative analysis and quantitative analysis. In addition the School offers training in GIS and social surveys, and a wide range of short courses are offered by the University. St Andrews is a recognised partner in the Scottish Doctoral Consortium and you will be expected to participate in the Human Geography pathway, which draws together research students from across Scotland.

Postgraduate Research in Sustainable Development
Staff with research interests in Sustainable Development offer PhD or MPhil research degrees in their areas of expertise, as well as one year taught MSc and MRes degrees (see separate leaflet). The St Andrews Sustainability Institute (SASI) is the focal point for inter-disciplinary research and postgraduate teaching in Sustainable Development. Professor Jan Bebbington, from the School of Management, is the Director of SASI, which sits within the School of Geography & Geosciences. In keeping with an interdisciplinary focus (which is itself necessary to adequately address sustainable development), staff from several other Schools and Departments are also affiliated with SASI including: Biology, Chemistry, Economics, History, Management and Social Anthropology to name a few. A taught Masters programme in Sustainable Development started in 2009 – 2010. The postgraduate degrees build on the existing highly successful undergraduate degree in Sustainable Development. The University of St Andrews is a champion of sustainable development teaching and research, as well as applying these concepts to its everyday practices. The University won the first ever THES 2006 award for Outstanding Contribution to Sustainable Development and the St Andrews Sustainability Institute builds on this success.

www.st-andrews.ac.uk/sasi
The **Environment & Society Research Group (ESRG)** ([www.st-andrews.ac.uk/gsd/research/esrg](http://www.st-andrews.ac.uk/gsd/research/esrg)) is the focus of research in sustainable development within the School. Research interests amongst core members of the ESRG team include:

- adaptation, vulnerability and resilience to environmental change
- biodiversity conflicts and conservation
- comparative environmental politics
- conceptual links between craft and Sustainable Development (SD), and craft as a pathway to SD
- culture influences on SD and indigenous cosmologies of sustainability
- disease risk perception and management in rural communities
- education for sustainability
- energy justice
- governance and policy-making for sustainability
- housing and environmental sustainability
- ICT and the social sustainability of rural communities
- marine spatial planning and management
- personal well-being and interactions with nature
- sustainable/pro-environment behaviours (individual, meso- and macro-scales)
- sustainable tourism theory and practice.

**Postgraduate Research in Physical Geography**

Research in physical geography is centred around the **Environmental Change Research Group (ECRG)** ([www.st-andrews.ac.uk/gsd/research/ecrg](http://www.st-andrews.ac.uk/gsd/research/ecrg)). The close collaboration that is possible between researchers with a broad range of geographical/geological and field/laboratory/computing skills represents one of our core strengths in both research and postgraduate training. Staff have worked on every continent, with continuing projects in many parts of the world, including the UK, Scandinavia, Iceland, India, Southeast Asia, Nepal, China, Africa, Australia, North and South America.
The ECRG has a core focus on past environmental change and the environmental and socio-economic implications of current and future changes. Recent research has been funded by the Natural Environment Research Council, the European Union, the National Science Foundation, the Royal Society, the Royal Geographical Society, Scottish Natural Heritage, English Nature, Historic Scotland, English Heritage, the British Geological Survey, the Leverhulme Trust, the Carnegie Trust for the Universities of Scotland and a number of private companies.

Current research projects in the ECRG include:

- reconstructing North East Atlantic ocean-ice-climate interactions
- numerical models of glacier calving at ice sheet margins
- paraglacial landscapes and landform succession
- dimensions and deglacial chronology in Northern Britain
- reconstruction of past climate changes from corals and speleothems
- identification of ice-rafted debris sources in NE Atlantic sediment
- developing fluvial (and flooding) chronologies using luminescence dating
- placing ancient varve chronologies in a regional facies context
- quantifying ancient Eocene, Permian, Silurian, and Ediacaran warmings and deglaciations
- paleoclimatic reconstruction in northern Spain
- ice dynamics of the SW sector of the Greenland Ice Sheet
- ichenometry, radiocarbon, and surface exposure dating
- the significance of iron oxide crystals produced by bacteria
- impacts of the Indian Ocean Tsunami in Malaysia and Thailand
- 8,000 years of environmental and landscape change in the Cairngorms
- characterising forest disturbance using radar
- coastal and intertidal greenhouse gas emissions
- global climatic controls on the stable-isotope composition of soil organic carbon
- identifying the signature of drought through dendrochronology and isotopes
- links between streamflow, sediment transport/storage, and mercury
- characterising the coupling between hillslopes and channels in dryland landscapes
- developing models of transient autogenic sediment redistribution in fluvial systems
- assessing the impacts of climate and climate change on alluvial riverbeds.
**Postgraduate Research in Earth Sciences**

Research in Earth Sciences spans an exciting array of issues, from the big questions regarding the co-evolution of Earth and life to applied geology in mineral exploration and geophysics. We address fundamental questions pertaining to the growth and development of continental crust and documenting hallmark periods in Earth history that archive exceptional change in the overall geological evolution of Earth’s surface environments. Another research initiative centres on characterising and modelling the physical, biological and chemical processes operating within sedimentary systems and resolving the geological records of landscape response to climatic and tectonic perturbations. Our latest research explores the application of mineralogy and geochemistry to understand better the coupled geobiological processes influencing how organisms lived and evolved in response to changing environmental conditions. We also research the influence that vital effects have on isotopic and trace element ratios used as proxies for evaluating the magnitude of past climate changes. St Andrews’ Earth scientists also lead in the development of novel high-resolution geophysical survey methods to underpin research in areas as diverse as geoarchaeology and documenting the links between seafloor geology and benthic habitats.

Earth Sciences is a core component in the unique Earth and Life Sciences initiative that will bring together geologists, biologists, geochemists and modellers to explore questions about Earth System evolution through time. We require and utilise skills that span the spectrum from field geology, to isotope geochemistry and environmental geophysics. Our work is enriched by collaborations with research institutions worldwide and we have received funding from the Natural Environmental Research Council, the National Science Foundation, The Leverhulme Trust, The Carnegie Trust for the Universities of Scotland, English and Scottish Natural Heritage, the European Union and industry.
Current staff research in Earth Sciences includes:

- generation and preservation of continental crust
- generating peaks in zircon age distribution records within an orogenic cycle
- the Archaean-Proterozoic transition: constraining the emergence of the aerobic Earth System
- Neoproterozoic Earth history: Namibia, the SW United States and the Scottish-Irish Highlands
- generation and preservation of continental crust
- the formation of mineral deposits in alkaline igneous rocks
- the role of trace elements in biomineralisation
- luminescence of minerals
- silicate diagenesis in ancient marine and lacustrine carbonates
- detrital mineral geochronology and geochemistry for provenance detection and basin analysis in sedimentary rocks
- chemical weathering on early Earth
- high latitude ocean current circulation patterns – control on the collapse of Arctic ice
- prehistoric occupation of Northern Europe – the potential of the submerged landscapes
- luminescence of feldspathoids.

Interdisciplinary Research Centres

The Earth and Life Institute and Scottish Oceans Institute (SOI) ([http://soi.st-andrews.ac.uk/default.aspx](http://soi.st-andrews.ac.uk/default.aspx)) are cross-School, interdisciplinary institutes for research and training in Earth, Marine and Life Sciences. SOI has interests that range from deep oceans to the coasts, and from the people who use and interact with the sea to the biological and physical processes that make the oceans function. The aim of SOI is to develop scholarship, commercialisation of research and advanced-level teaching delivered through contributing Schools within the University of St Andrews including the Schools of Geography & Geosciences, Biology, Mathematics & Statistics, Computer Science and History. The Department of Earth Sciences provides the key analytical facilities, both laboratory and offshore survey, necessary to modern scientific investigation of the oceans.
Research Training and Facilities in Physical Geography and Earth Sciences

Physical Geography and Earth Sciences at St Andrews offer PhD or MPhil research degrees. These involve a three-year programme of training and original research under the supervision of a member of staff in the School. Funding support for individuals wishing to enrol in the programme is available from a range of government, non-government and industry sources. Current opportunities are listed on the School web pages and self-funded candidates are also accepted subject to meeting the requirements for admission.

The Facility for Earth and Environmental Analysis (FEEA) (www.st-andrews.ac.uk/gsd/research/feea) houses the suite of laboratory instrumentation and field equipment that underpins physical science research by staff and students in the School of Geography & Geosciences (http://earthsci.st-andrews.ac.uk/feea/index.html). The FEEA can determine the chemical composition and structure of a wide array of synthetic and natural materials and also allows researchers in the School to undertake geological, geophysical and environmental field investigations around the world. Research is supported by an impressive array of equipment and computing facilities, laboratories, support staff, research vehicles and vessels.

Custom-built laboratories house environmental magnetism and luminescence (OSL, TL, CL) equipment as well as an electron microprobe, scanning electron microscope, X-ray diffractometer and X-ray fluorescence spectrometer for mineralogical and chemical analysis. A Finnegan Delta plus-XP gas source mass spectrometer enables stable-isotope analyses of carbon, oxygen, nitrogen, and sulphur in microgram quantities of natural and synthetic materials. The capacity of the FEEA was greatly extended in 2006 through the construction of dedicated clean laboratories and the installation of an inductively coupled plasma spectrometer (ICP-MS) that has enabled high-throughput trace element analysis of water, sediment, soil, rock and organic samples.

“St Andrews is one of the best places in the world to study Sustainable Development. The Masters course provided me with the perfect opportunity to do this. The course places a strong emphasis on drawing links between theory and practice which is paramount in developing a critical understanding of sustainability. There is great freedom to choose courses in a range of subjects from ecology to economics. Additionally, in second semester we receive a series of lectures from experts in their respective fields of sustainability.”

ALEX
Ilford, Essex, England
MSc St Andrews, Current PhD student
A laboratory for the physical analysis of environmental samples contains a full range of standard equipment, plus an automated analytical spectrophotometer, laser Coulter counter, all supervised by a specialist technician. The FEEA also houses a palynology and micropalaeontology laboratory with a suite of microscopes and digital imaging capability.

We have a full range of survey instruments (GPS, theodolites, microptic alidades and an EDM), data loggers and equipment to enable field-based data acquisition, sample collection and sediment coring. Oceanographic and geophysical studies in the School have been boosted by the acquisition of our own boat, ‘Envoy’, an ideal platform for conducting sea-floor surveys and shallow coring. This vessel has been equipped with a suite of echosounders, bathymetric sidescan, sidescan sonar, sub-bottom profilers, marine magnetometers and a Videoray ROV explorer. A range of land geophysical equipment for resistivity, electromagnetics, magnetics and seismic surveys is also routinely deployed on land-based surveys in support of environmental and geoarchaeological investigations.

Cartographic services are provided via state-of-the-art computer technology. Remote sensing techniques, image processing equipment and GIS software (ArcView, ArcInfo) are all available in a dedicated laboratory containing high specification PCs, scanners, digitiser and printers.
Application Process
Further information and an online application form can be found on the Postgraduate Admissions web pages (contact details on the back of this leaflet).

Entry Requirements
You are welcome to apply if you have a good undergraduate degree (at least a 2.1 Honours standard or equivalent – e.g. GPA of 3.6 on a 4 point scale) in a range of relevant disciplines, including geography, geology, geoscience, health studies, nursing and other relevant social science and scientific disciplines.

You are expected to have an effective knowledge of English, both spoken and written. If your first language is not English, you will be required to sit an appropriate test, and achieve the required TOEFL/IELTS/CCP score/grade (check with the School of Geography & Geosciences for current requirements). You are also expected to develop a reading knowledge of languages relevant to your areas of proposed research. See also www.st-andrews.ac.uk/elt/entry

Financial Assistance
The School of Geography & Geosciences is offering some or all of the following awards to suitably qualified applicants who in September 2013 will begin a programme of research at the University of St Andrews:

- **NERC Research Studentships** available to UK and EU applicants studying for a PhD in the environmental sciences which provide fees and (for UK students) a maintenance grant for up to three and a half years.
- **ESRC Research Studentships** available to EU applicants studying for a PhD in the social sciences which provide fees and (for UK students) a maintenance grant for three or four years.

Research student (David Cheer) standing on a whaleback fold in the Moines of the NW Highlands
Various other awards, usually tied to a specific project or sponsored by an external organisation or company, are published on the School’s web pages from time to time. Applicants for awards must follow the procedures, guidelines and deadline timetable set out in our application packs and on our web pages.

www.st-andrews.ac.uk/gsd/opportunities/pg/
http://earthsci.st-andrews.ac.uk/opportunities.html

In addition, partial studentship support may be available to cover the costs of fees for self-funded postgraduate students, and we welcome applications from self-funded graduates who wish to undertake a postgraduate degree on a full- or part-time basis. Special consideration is given to such students so that they can earn some support through demonstrating and other forms of teaching in the School.

Information about awards from the AHRC can be found on the University scholarships web page: www.st-andrews.ac.uk/scholarships

Prospective overseas students are advised to seek external funding, and may wish to start with the opportunities listed on the University web page: www.st-andrews.ac.uk/scholarships

Information about fees and funding can be obtained from University Admissions: www.st-andrews.ac.uk/admissions/pg/financialinformation

**Career Information**

We see postgraduate study as part of your long-term career development. We are here to offer advice and also support you in the development of your career, as is the University’s Careers Centre. There are opportunities for postgraduates to run tutorials, practical demonstrations and other academic work to gain experience of working in an academic context. Others gain practical experience working with companies and governmental organisations. Recent postgraduates have obtained postdoctoral and lecturing positions in leading universities around the world, while others have jobs in environmental management, market research, health research and the oil industry.
**Academic Staff and their Research Interests**

**Dr Bill Austin**, (wena@st-andrews.ac.uk), BSc, MSc, PhD: Palaeoceanography and climate change, marine geology, micropalaeontology.

**Professor Colin Ballantyne**, (ckb@st-andrews.ac.uk), MA, MSc, PhD, DSc, FRSE, FRSA: Geomorphology and Quaternary research.

**Dr Richard Bates**, (crb@st-andrews.ac.uk), BSc, PhD: Applied geophysics, reservoirs, palaeo-landscape reconstructions.

**Professor Doug Benn**, (Doug@st-andrews.ac.uk), BSc, PhD: Glacial geomorphology, sedimentology, glaciology.

**Professor Paul Boyle**, (on secondment), BA, PhD: Health and population geography.

**Professor Peter Cawood**, (pac20@st-andrews.ac.uk), Chair of Earth Sciences, BSc, MSc, PhD: Geodynamics and crustal evolution.

**Dr Dan Clayton**, (dwc3@st-andrews.ac.uk), BA, MA, PhD: Historical & cultural geography, colonialism & post-colonialism.

**Dr Chris Dibben**, (cjld@st-andrews.ac.uk), BA, PhD: Social inequality, population.

**Professor Joe Doherty**, (jd@st-andrews.ac.uk), BA, MS, PhD (Emeritus Professor): Urban geography, housing and social welfare.

**Dr Colin Donaldson**, (chd@st-andrews.ac.uk), BSc, PhD, FRSE: Crystallisation and chemical evolution of basaltic magmas.

**Dr Ioan Fazey**, (iraf2@st-andrews.ac.uk), BSc, MSc, PhD: Participatory environmental management, Adaptation, Sustainable Development.

**Dr Emilia Ferraro**, (ef21@st-andrews.ac.uk), MA, MA(econ), PhD: Indigenous people, culture and sustainability, belief systems.

**Dr Adrian Finch**, (aaf1@st-andrews.ac.uk), BSc, PhD: Environmental mineralogy, luminescence of minerals, igneous petrology of alkaline rocks, mineralogy of environmental proxies.

**Professor Allan Findlay**, (allan.m.findlay@st-andrews.ac.uk), MA, PhD, FRSE: International migration, human mobility, population geography.

**Professor Robin Flowerdew**, (rf15@st-andrews.ac.uk), BA, MS, PhD: Migration, health, quantitative geography, GIS.

Using real time kinetic global positioning to map the impacts of the Indian Ocean Tsunami on the coast of Malaysia.
Professor A Stewart Fotheringham, (asf7@st-andrews.ac.uk), BSc, MA, PhD: GIS, Spatial Data Analysis.

Professor Elspeth Graham, (efg@st-andrews.ac.uk), MA, PhD: Population change, migration, health and well-being, mixed-methods, South-East Asia.

Dr Timothy Hill, (tch2@st-andrews.ac.uk), MSci, PhD: Terrestrial carbon cycles, land-atmosphere exchanges, data assimilation.

Professor Chris Hawkesworth, (cjh21@st-andrews.ac.uk) BA, DPhil, FRS, Deputy Principal and Vice-Principal (Research): Isotope geochemistry of Earth Systems.

Dr Donald Houston, (dsh7@st-andrews.ac.uk), MA, MSc, PhD: Labour market restructuring, welfare reform, urban sustainability.

Professor Colin Hunter, (ch69@st-andrews.ac.uk), BSc, DipSurv, PhD: Sustainable tourism, pro-environment behaviour, well-being and interactions with nature.

Dr Mike Kesby, (mgk@st-andrews.ac.uk), BA, PhD: Gender, AIDS and development in Southern Africa.

Professor Duncan Maciennan, (dm103@st-andrews.ac.uk) (Head of School), PhD, CBE: Urban geography, housing and social welfare.

Dr Darren McCauley, (dam7@st-andrews.ac.uk), BSc, MA, PhD: Energy justice, social movements and comparative policy.

Dr Kim McKee, (km410@st-andrews.ac.uk), MA, MRes, PhD: Housing policy and urban regeneration strategy.

Professor John McManus, (jm@st-andrews.ac.uk), BSc, PhD, DSc, FRSE (Emeritus Professor): Sediment transport: coastal, estuarine & shallow marine.

Dr Tony Prave, (ap13@st-andrews.ac.uk), BS, MS, PhD: Tectonostratigraphic evolution of sedimentary basins, Earth System evolution.

Dr Tim Raub, (timraub@st-andrews.ac.uk), MPhil, PhD: Geobiology, palaeo-magnetism, geochronology.

Dr Louise Reid, (lar9@st-andrews.ac.uk), MA, MSc, PhD: Environmental behaviour, household energy consumption, subjective well-being, diary methodology.

Dr Vincent Rinterknecht, (vr10@st-andrews.ac.uk), MS, PhD: Quaternary Geochronology, glacial geomorphology, palaeoclimates.
Dr Ruth Robinson, (rajr@st-andrews.ac.uk), BSc, PhD: Luminescence dating, tectonomorphic evolution of orogenic belts, fluvial sedimentology.

Dr Michael Singer, (mds21@st-andrews.ac.uk), BA, PhD: Rivers, floods and floodplains, sediment transport.

Dr Timothy Stojanovic, (tas21@st-andrews.ac.uk), BSc, DipSocSci, PhD: Environmental geography, coastal management, sustainability science.

Dr Matthew Sothern, (mbs10@st-andrews.ac.uk), MSc, PhD: Health, cultural and political geographies.

Dr Yit Arn Teh, (yat@st-andrews.ac.uk), BA, PhD: Biogeochemistry, biosphere-atmosphere exchange, terrestrial carbon cycling, ecosystem and soil microbial ecology.

Dr Edward Tipper, (ett@st-andrews.ac.uk), MSc, PhD: Global biogeochemical cycles, isotope tracers.

Dr Nick Tosca, (ntj@st-andrews.ac.uk), MSc, PhD: Sedimentary geochemistry and processes in Earth surface.

Dr John Walden, (jw9@st-andrews.ac.uk), BA, PhD: Glacial geomorphology and sedimentology, mineral magnetism.

Dr Charles Warren, (crw2@st-andrews.ac.uk), MA, MSc, PhD: Glaciology, glacial geomorphology, resource management.

Dr Rehema White, (rmw11@st-andrews.ac.uk), BSc, MSc, PhD: Sustainable Development, conservation and natural resource management, interdisciplinary teaching and learning.

Professor Graeme Whittington, (gw@st-andrews.ac.uk), BA, PhD (Emeritus Professor): Palynology, palaeoecology, environmental history.

Dr Chris Wilson, (ccbw@st-andrews.ac.uk), BA, PhD: Population and demography.

Dr Rob Wilson, (rjsw@st-andrews.ac.uk), BSc, MSc, PhD: Palaeoclimatology of the last 2,000 years.
Visiting Days
There will be two Visiting Days, 14 November 2012 and 13 March 2013, when you can look round the University and talk informally to staff about courses. Booking for these events is essential. For more information see the prospectus or: www.st-andrews.ac.uk/admissions/pg/visiting