

#### Agricultural point sources of ammonia pollution

**Student:** Mr RA Skinner, University of York, Biology

**Lead Supervisor:** Professor P Ineson, University of York, Biology

**CASE Supervisor:** Dr HE Jones, NERC Centre for Ecology and Hydrology, NERC CEH - Merlewood

**NERC Reference:** NER/S/R/2000/04074

**Award State:** Finished

**Start Year:** 2001

**Period of Award:** 22.1.2001 - 21.7.2004

**Award Type:** Research Stud (Dir)

**Spend:** £46,955

#### Air-sea exchange of ammonia over the North Sea.

**Student:** Dr MT Johnson, University of East Anglia, Environmental Sciences

**Lead Supervisor:** Professor PS Liss, University of East Anglia, Environmental Sciences

**NERC Reference:** NER/S/R/2000/03917

**Award State:** Finished

**Start Year:** 2000

**Period of Award:** 1.10.2000 - 30.9.2003

**Award Type:** Research Stud (Dir)

**Spend:** £41,560

#### Assessing the role of DON and PON in natural and agricultural ecosystems

**Student:** Ms VB Willett, Bangor University, Sch of Environment and Natural Resources

**Lead Supervisor:** Professor DL Jones, Bangor University, Sch of Environment and Natural Resources

**NERC Reference:** NER/S/R/2000/03943

**Award State:** Finished

**Start Year:** 2000

**Period of Award:** 1.10.2000 - 30.9.2003

**Award Type:** Research Stud (Dir)

**Spend:** £34,660

#### Atmospheric ammonia emission from seabird colonies and its contribution to nitrogen supply in remote coastal ecosystems

**Student:** Mr TD Blackall, Durham University, Biological and Biomedical Sciences

**Lead Supervisor:** Dr KC Hamer, University of Leeds, Inst of Integrative & Comparative Biolog

**CASE Supervisor:** Dr MA Sutton, NERC Centre for Ecology and Hydrology, Billett

**NERC Reference:** GT22/1999/GANE/0007

**Award State:** Terminated

**Start Year:** 2000

**Period of Award:** 1.4.2000 - 28.2.2002

**Award Type:** Research Stud (Dir)

**Spend:** £16,260

#### Atmospheric ammonia emission from seabird colonies and its contribution to nitrogen supply in remote coastal ecosystems

**Student:** Mr TD Blackall, University of Leeds, Inst of Integrative & Comparative Biolog

**Lead Supervisor:** Dr KC Hamer, University of Leeds, Inst of Integrative & Comparative Biolog

**NERC Reference:** NER/S/R/1999/11180

**Award State:** Finished

**Start Year:** 2002

**Period of Award:** 1.3.2002 - 31.3.2003

**Award Type:** Research Stud (Dir)

**Spend:** £12,874

#### Atmospheric inputs to the Northern North Sea

**Student:** Mr PA Nelson, University of East Anglia, Environmental Sciences

**Lead Supervisor:** Professor T Jickells, University of East Anglia, Environmental Sciences

**NERC Reference:** NER/S/S/2000/03861

**Award State:** Finished

**Start Year:** 2000

**Period of Award:** 1.10.2000 - 31.12.2004

**Award Type:** Research Stud (Dir)

**Spend:** £50,457

#### Chemical characterisation and bioavailability of DON in rivers and estuaries.

**Student:** Miss JM Homewood, University of Southampton, School of Ocean and Earth Science

**Lead Supervisor:** Dr DA Purdie, University of Southampton, School of Ocean and Earth Science

**NERC Reference:** NER/S/R/2000/05941

**Award State:** Finished

**Start Year:** 2001

**Period of Award:** 1.4.2001 - 31.3.2004

**Award Type:** Research Stud (Dir)

**Spend:** £52,358

#### Compound-specific <sup>15</sup>N analysis on the origin of dissolved organic nitrogen.

**Student:** Miss CS McCulloch, University of Glasgow, Geographical and Earth Sciences

**Lead Supervisor:** Dr GB Curry, University of Glasgow, Geographical and Earth Sciences

**NERC Reference:** NER/S/R/2000/04029

**Award State:** Finished

**Start Year:** 2000

**Period of Award:** 1.10.2000 - 30.9.2003

**Award Type:** Research Stud (Dir)

**Spend:** £46,160

#### Current and historical nitrogen deposition in the UK and diagnostic indicators

**Student:** Ms MA O Donoghue, University of East Anglia, Environmental Sciences

**Lead Supervisor:** Professor P Brimblecombe, University of East Anglia, Environmental Sciences

**NERC Reference:** NER/S/S/2001/06697

**Award State:** Finished

**Start Year:** 2000

**Period of Award:** 1.10.2000 - 30.6.2005

**Award Type:** Directed Tied PhD

**Spend:** £46,718

#### Decomposition of the major organic N-containing structural components of soil microorganisms

**Student:** Ms HR MacGregor, University of Stirling, Biological and Environmental Sciences

**Lead Supervisor:** Professor DW Hopkins, University of Stirling, Biological and Environmental Sciences

**NERC Reference:** NER/S/R/2001/06644

**Award State:** Terminated

**Start Year:** 2001

**Period of Award:** 1.10.2001 - 30.9.2003

**Award Type:** Research Stud (Dir)

**Spend:** £46,502

#### Early indications of metabolite perturbation in leaves using ion-specific electrodes

**Student:** Miss S Marsh, University College London, Genetics Evolution and Environment

**Lead Supervisor:** Dr J Pearson, University College London, Genetics Evolution and Environment

**NERC Reference:** NER/S/R/2000/04063

**Award State:** Finished

**Start Year:** 2000

**Period of Award:** 1.10.2000 - 30.9.2003

**Award Type:** Research Stud (Dir)

**Spend:** £52,109

#### How soil fauna influence plant-microbial competition for N in arctic ecosystems

**Student:** Mr SJ Dutton, Lancaster University, Biological Sciences

**Lead Supervisor:** Professor R Bardgett, Lancaster University, Lancaster Environment Centre

**CASE Supervisor:** Dr R van der Wal, University of Aberdeen, School of Biological Sciences

**NERC Reference:** NER/S/R/2000/04052

**Award State:** Terminated

**Start Year:** 2000

**Period of Award:** 1.12.2000 - 31.3.2003

**Award Type:** Research Stud (Dir)

**Spend:** £43,825

### Impact of Plant secondary metabolites on N fluxes and microbial diversity

**Student:** Mr G Saunders, Imperial College London, Biological Sciences

**Lead Supervisor:** Dr G Cadisch, Imperial College London, Agricultural Sciences

**NERC Reference:** NER/S/R/2000/03954

**Award State:** Finished

**Start Year:** 2000

**Period of Award:** 1.10.2000 - 30.9.2003

**Award Type:** Research Stud (Dir)

**Spend:** £44,429

### Improved N<sub>2</sub>O and other nitrogenous gas emissions from African savanna burning

**Student:** Mr AMSS Smith, King's College London, Geography

**Lead Supervisor:** Professor MJ Wooster, King's College London, Geography

**NERC Reference:** NER/S/R/2000/04057

**Award State:** Finished

**Start Year:** 2000

**Period of Award:** 1.10.2000 - 30.9.2003

**Award Type:** Research Stud (Dir)

**Spend:** £48,996

### Influence of reactive nitrogen inputs on the ecophysiology of Calluna and bryophytes

**Student:** Miss JA Carfrae, University of Dundee, Sch of Life Sciences

**Lead Supervisor:** Professor JA Raven, University of Dundee, Sch of Life Sciences

**NERC Reference:** NER/S/S/2001/06696

**Award State:** Finished

**Start Year:** 2001

**Period of Award:** 1.10.2001 - 28.2.2005

**Award Type:** Directed Tied PhD

**Spend:** £39,640

### Microbial ecology of nitrogen transformations in the turbidity maximum of estuaries

**Student:** Miss CH Linacre, Newcastle University, Civil Engineering and Geosciences

**Lead Supervisor:** Professor I Head, Newcastle University, Civil Engineering and Geosciences

**NERC Reference:** NER/S/R/2000/04026

**Award State:** Finished

**Start Year:** 2000

**Period of Award:** 1.10.2000 - 30.9.2003

**Award Type:** Research Stud (Dir)

**Spend:** £34,660

### Modelling nitrogen fluxes in tundra ecosystems on Svalbard 78 deg. North

**Student:** Dr LM Stapleton, University of Nottingham, Sch of Biosciences

**Lead Supervisor:** Professor N Crout, University of Nottingham, Sch of Biosciences

**NERC Reference:** NER/S/S/2000/04070

**Award State:** Finished

**Start Year:** 2001

**Period of Award:** 2.1.2001 - 1.1.2004

**Award Type:** Research Stud (Dir)

**Spend:** £36,090

### Modelling of Nitrogen transformation processes and NO<sub>x</sub> emissions in estuarine intertidal zones

**Student:** Miss C Kenny, Royal Holloway, Univ of London, Geography

**Lead Supervisor:** Dr P French, Royal Holloway, Univ of London, Geography

**CASE Supervisor:** Dr S Yamulki, Inst of Grassland and Environmental Res, Soil Environmental and Ecological Sci

**NERC Reference:** NER/S/R/2000/03955

**Award State:** Finished

**Start Year:** 2000

**Period of Award:** 1.10.2000 - 31.12.2003

**Award Type:** Research Stud (Dir)

**Spend:** £49,268

#### Nitrogen assimilation by limpets.(GANE PROGRAMME)

**Student:** Miss EM Campbell, University of Glasgow, Geographical and Earth Sciences

**Lead Supervisor:** Dr GB Curry, University of Glasgow, Geographical and Earth Sciences

**NERC Reference:** NER/S/R/2000/04030

**Award State:** Finished

**Start Year:** 2000

**Period of Award:** 1.10.2000 - 30.9.2003

**Award Type:** Research Stud (Dir)

**Spend:** £46,660

#### Nitrogen loading and the biodiversity of submerged freshwater plant communities.

**Student:** Ms J Fisher, University of Liverpool, Sch of Biological Sciences

**Lead Supervisor:** Professor B Moss, University of Liverpool, Sch of Biological Sciences

**NERC Reference:** GT24/1999/TS/0019

**Award State:** Finished

**Start Year:** 2000

**Period of Award:** 1.2.2000 - 30.4.2003

**Award Type:** Directed Tied PhD

**Spend:** £26,422

#### Origins, transformation and biological uptake of organic nitrogen in river sea systems.

**Student:** Mr RGM Spencer, Newcastle University, Marine Science and Technology

**Lead Supervisor:** Professor RC Upstill-Goddard, Newcastle University, Marine Science and Technology

**NERC Reference:** NER/S/S/2000/05946

**Award State:** Finished

**Start Year:** 2001

**Period of Award:** 23.4.2001 - 22.7.2004

**Award Type:** Directed Tied PhD

**Spend:** £38,683

#### Process level significance of changes to soil nitrifier communities due to N-enrichment/recovery

**Student:** Ms K Hultman, University of Aberdeen, Plant and Soil Science

**Lead Supervisor:** Professor D Robinson, University of Aberdeen, Inst of Biological and Environmental Sci

**NERC Reference:** NER/S/R/2000/04072

**Award State:** Finished

**Start Year:** 2001

**Period of Award:** 1.2.2001 - 30.4.2004

**Award Type:** Research Stud (Dir)

**Spend:** £41,493

#### Quantification of land use/soil management effects on soil N storage pools

**Student:** Dr AM Crowe, University of York, Environment

**Lead Supervisor:** Dr C McClean, University of York, Biology

**NERC Reference:** NER/S/R/2000/04055

**Award State:** Finished

**Start Year:** 2000

**Period of Award:** 1.10.2000 - 31.12.2003

**Award Type:** Research Stud (Dir)

**Spend:** £37,690

#### Socio-economic analysis of nitrogen in the landscape in relation to abatement priorities

**Student:** Dr A Angus, University of Cambridge, Land Economy

**Lead Supervisor:** Dr ID Hodge, University of Cambridge, Land Economy

**CASE Supervisor:** Ms S McNally, NERC Centre for Ecology and Hydrology, UNLISTED

**NERC Reference:** NER/S/R/2000/04071

**Award State:** Finished

**Start Year:** 2000

**Period of Award:** 1.10.2000 - 30.9.2003

**Award Type:** Research Stud (Dir)

**Spend:** £39,619

#### The costs and benefitsof nitrogen enrichment

**Student:** Miss LP Heffron, University of Essex, Biological Sciences

**Lead Supervisor:** Professor JN Pretty, University of Essex, Biological Sciences

**NERC Reference:** NER/S/R/2000/06746

**Award State:** Finished

**Start Year:** 2002

**Period of Award:** 14.1.2002 - 13.1.2005

**Award Type:** Research Stud (Dir)

**Spend:** £30,337

#### The role of soil fauna in soil nitrogen processes

**Student:** Mrs A Thompson, Durham University, Biological and Biomedical Sciences

**Lead Supervisor:** Dr V Standen, Durham University, Biological and Biomedical Sciences

**CASE Supervisor:** Dr HE Jones, NERC Centre for Ecology and Hydrology, NERC CEH - Merlewood

**NERC Reference:** NER/S/R/2000/04051A

**Award State:** Finished

**Start Year:** 2001

**Period of Award:** 1.4.2001 - 30.9.2004

**Award Type:** Research Stud (Dir)

**Spend:** £46,016

#### The use of metabolomics to identify early plant responses to N deposition

**Student:** Mr EG Gidman, University of Wales, Aberystwyth, Inst of Biological Sciences

**Lead Supervisor:** Dr DG Jones, University of Wales, Aberystwyth, Inst of Biological Sciences

**CASE Supervisor:** Dr BA Emmett, NERC Centre for Ecology and Hydrology, Emmett

**NERC Reference:** NER/S/R/2000/03942

**Award State:** Finished

**Start Year:** 2000

**Period of Award:** 1.10.2000 - 30.9.2003

**Award Type:** Research Stud (Dir)

**Spend:** £38,080

**26 awards with a total spend of £1,088,521**