

**Doctoral Scholarships Scheme 2007 – List of Successful Submissions  
STRIVE Programme 2007-2013**

**Biodiversity**

| <b>Name</b>          | <b>Title</b>  | <b>Organisation</b>                              |
|----------------------|---|--|
| Prof J. Parnell      | The genetic relationships, phylogeny and conspecificity of Irish <i>E. aquaticum</i> populations with those from Scotland and North America.      | Trinity College Dublin, University of Dublin     |
| Dr Catherine Dalton  | Palaeolimnological assessment of recent disturbance / regime shifts in sediment cores from ecotonal brackish lake systems                         | University of Limerick (Mary Immaculate College) |
| Dr Paulo A. Prodöhl  | Population genetic structure, mixed stock analysis, and fisheries conservation management of the brown trout complex of Lough Derg.               | Queen's University Belfast                       |
| Prof James G. Wilson | Biodiversity and ecological requirements of meiofauna and a typology for Irish transitional waters.   | Trinity College, Dublin                          |
| Dr Christine Griffin | Ecological impact of proposed first widespread use of biological control in Ireland: Multispecies interactions in a below-ground forest ecosystem | NUI Maynooth                                     |
| Dr Deirdre Brophy    | Juvenile fish habitat requirements in changing coastal ecosystems   | Galway Mayo Institute of Technology              |

**Environment & Health**

|                     |  |                                |
|---------------------|--|--------------------------------|
| Prof Kenneth Dawson | Role of engineered nanoparticles in protein fibrillation diseases  | University College Dublin      |
| Dr James Dooley     | Antimicrobial resistant enterococci (ARE) in Irish waters: Sources, transfers and impacts                                  | University of Ulster           |
| Dr Frances Lucy     | Efficiency of Sligo Secondary Sewage Treatment Systems in the Removal of Cryptosporidium and other Human Enteric Pathogens | Institute of Technology, Sligo |

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|----------------------|--|---|
| Dr Kevin Kavanagh    | An investigation of the disease-causing potential of environmental isolates of <i>Aspergillus fumigatus</i>                            | National University of Ireland Maynooth |
| Prof J.Philip O'Kane | SADOSE - Safe disposal of sewage effluent in coastal waters designated for the cultivation of oysters and for water-contact recreation | University College Cork                 |
| Dr John Wenger       | Identity, Sources and Health Effects of Oxygenated Organic Compounds in Atmospheric Particles  | University College Cork                 |

**Environment Technologies (Advanced Monitoring)**

|                      |   |                           |
|----------------------|---|---------------------------|
| Dr Fiona Regan       | Novel Passive Sampling Devices for the Monitoring of Priority Pollutants  | Dublin City University    |
| Prof Nicholas Holden | Assessing and monitoring vegetation disturbance on Irish peatlands using satellite remote sensing   | University College Dublin |
| Dr Owen McIntyre     | Legal Issues Relating to the Admissibility in Evidence of Environmental Data Gathered by Means of Remote Sampling and Self-Monitoring Techniques – the Case of Water Quality Sampling | University College Cork   |
| Dr Fiona Cawkwell    | Cloud cover and radiation balance changes over Ireland due to aircraft induced contrails  | University College Cork   |

**Environment Technologies (Green Chemistry)**

|                  |  |                         |
|------------------|--|-------------------------|
| Dr Niall O'Leary | Investigation of Biodegradable Plastic Production by an Activated Sludge Microbial Consortium Treating Dairy Industry Wastewater.  | University College Cork |
| Prof Alan Dobson | Elucidation of global regulatory signals controlling a biotechnologically significant pathway for the degradation of styrene, a toxic pollutant, by the bioreactor isolate <i>Pseudomonas putida</i> CA-3. | University College Cork |

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| Dr Michael Oelgemoeller        | Synthesis of Fine-Chemicals through Solarchemical Photooxygenations and Environmental Performance Evaluations using the EATOS method                 | Dublin City University         |
| Dr David J. Timson             | Exploitation of sugar kinases in green chemistry   | Queens University Belfast      |
| Dr Nick Gathergood             | Green Organocatalysis: A biodegradation and (eco)toxicity study  | Dublin City University         |
| Dr Justin D Holmes             | Carbon Nanocages as Environmental Adsorbents   | University College Cork        |
| <b>Soils</b>                   |  |                                |
| Prof Ger Kiely                 | The contribution of agricultural liming to carbon sequestration  | University College Cork        |
| Prof Fergal O'Gara             | Assessing the impact of conventional and decision based fertilizer inputs on rhizosphere microbial diversity and activity of three commercial crops. | University College Cork        |
| Dr Chaosheng Zhang             | Characterising variation of heavy metal pollution in urban soils   | NUI, Galway                    |
| Dr Thomaé Kakouli-Duarte       | Nematode community structure analysis and its function as an indicator of heavy metal soil contamination in Ireland                                  | Institute of Technology Carlow |
| <b>Sustainable Development</b> |  |                                |
| Dr Colin L.Sage                | Sustainable food Systems: An evaluation of the potato supply chain in Ireland using life cycle assessment.   | University College Cork        |

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| <b>Name</b>           | <b>Title</b>  | <b>Organisation</b>        |
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| Dr Keith Farnsworth   | An objective measure of value in biological entities for sustainable management and planning                                      | Queen's University Belfast |
| Dr Corrado Di Maria   | The EU Emission Trading Scheme and the Greening of Technology   | University College Dublin  |
| Dr Michale O'Cinneide | Participatory Governance: A Best Practice Model for Effective and Inclusive Decision-Making in Wind Energy Development in Ireland | NUI Galway                 |
| Prof Alun Jones       | Innovation, agricultural diversification and environmental sustainability   | University College Dublin  |