

Report of the President 2006/2007

Sep 2006 - Aug 2007

Research Publications for Urban Institute of Ireland

Dr Aoife Ahern

Peer Reviewed Journals

Ahern, A. and Anandarajah, G. (2007) 'Railway Projects Prioritisation for Investment: Application of Goal Programming'. *Transport Policy*, 14 (1):70-80.

Ahern, A and Anandarajah G (2006) 'Influence of price and income on rail travel in Ireland'. *TRANSPORT*, 159 :177-181.

Ahern, A., Tapley, N. and Anandarajah, G. (2006) 'Prioritising railway projects for investment'. *Transport, Proceedings of the Institution of Civil Engineers*, 159 :153-157.

Conference Publications

Ahern, A. (2007) Perceptions of lecturers towards cooperative learning *International Conference on Engineering Education*, Coimbra, Portugal,

Dr Michela Bertolotto

Book Chapters

M. Bertolotto (2007) 'Progressive Techniques for Efficient Vector Map Data Transmission: an Overview' In: A. Belussi, B. Catania, E. Clementini, E. Ferrari (eds). *Spatial Data on the Web: Modeling and Management*. *: Springer-Verlag.

Peer Reviewed Journals

M. Bertolotto, Min Zhou (2007) 'Efficient line simplification for web-mapping'. *Journal of Web Engineering and Technology*, 3 (2):139-156.

M. Bertolotto, S. Di Martino, F. Ferrucci, T. Kechadi (2007) 'Towards a framework for mining and analyzing spatio-temporal datasets'. *International Journal of Geographical Information Science*, 21 (8):895-906.

T. Monahan, G. McArdle, M. Bertolotto (2007) 'mCLEV-R: Design and Evaluation of an Interactive and Collaborative M-Learning Application'. *International Journal of Emerging Technologies in Learning*, 2 (2):1-6.

D. Wilson, J. Doyle, J. Weakliam, M. Bertolotto, D. Lynch (2007) 'Personalised maps in multimodal mobile GIS'. *Journal of Web Engineering and Technology*, 3 (2):196-216.

P. Compieta, S. Di Martino, M. Bertolotto, F. Ferrucci, T. Kechadi (2007) 'Exploratory spatio-temporal data mining and visualization'. *Journal of Visual Languages and Computing*, 18 (3):255-279.

D. O'Sullivan, E. McLoughlin, M. Bertolotto, D. Wilson (2007) 'Mobile Case-Based Decision Support for Intelligent Patient Knowledge Management'. *Health Informatics Journal*, 13 (3):179-195.

Camossi, E; Bertolotto, M; Bertino, E; (2006) 'A multigranular object-oriented framework supporting spatio-temporal granularity conversions'. *INTERNATIONAL JOURNAL OF GEOGRAPHICAL INFORMATION SCIENCE*, 20 (5):511-534.

Other Journals

Camossi, E., Bertolotto, M., Bertino, E. (2006) 'Flexible Approach to Spatio-Temporal Multigranularity in an Object-Oriented Data Model' *International Journal of Geographical Information Science* .

Conference Publications

T. Monahan, G. McArdle, M. Bertolotto (2007) Using Virtual Reality to Learn and Socialise Online *Proceedings World Conference on Educational Multimedia, Hypermedia & Telecommunications (ED-MEDIA 2007)* , Vancouver, Canada, 4225 - 4234

E. MacAoidh, M. Bertolotto, D. Wilson (2007) Implicit profiling for contextual reasoning about user's spatial preferences . In: D. C. Wilsom and D. Khemani eds. *Proceedings 2nd International Workshop on Case Based Reasoning and Context-Awareness (held in conjunction with 7th International Conference on Case-Based Reasoning, ICCBR'07)* , Belfast, Northern Ireland, 177 - 184

E. MacAoidh, M. Bertolotto, D. Wilson (2007) Capturing Spatial Interactions to Personalise Cultural Heritage Access . In: L. Aroyo, T. Kuflik, O. Stock, M. Zancanaro eds. *Proceedings International Workshop on Personalization Enhanced Access to Cultural Heritage (held in conjunction with 11th International Conference on User Modelling, UM'07)* , Corfu, Greece, 71 - 81

E. Mac Aoidh, M. Bertolotto (2007) Improving Spatial Data Usability By Capturing User Interactions, in The European Information Society ? Leading the Way with Geo-Information *Proceedings 10th AGILE International Conference on Geographic Information Science (AGILE 2007)* , Aalborg, Denmark, 389 - 403

G. McArdle, T. Monahan, M. Bertolotto (2007) Web-Based Communities in e-Learning *Proceedings 3rd International Conference on Web-Based Information Systems and Technologies (WEBIST'07)* , Barcelona, Spain, 265 - 272

E. Mac Aoidh, M. Bertolotto (2007) Analysing Mouse Movements to Infer Spatial Interests *Proceedings GISRUUK 2007* , Maynooth, Ireland, 307 - 311

D. O'Sullivan, D. Wilson, M. Bertolotto, E. McLoughlin (2007) Task-Based Image Annotation and Retrieval *Proceedings Joint Rough Sets Symposium (JRS'07) - 11th International Conference on Rough Sets, Fuzzy Sets, Data Mining and Granular Computing* , Toronto, Canada, 451 - 458

D. Wilson, D. O'Sullivan, E. McLoughlin, M. Bertolotto (2006) Case-Based Decision Support for Intelligent Patient Knowledge Management *Proceedings 3rd IEEE Conference On Intelligent Systems (IEEE IS'06)* , University of Westminster, London, UK,

E. Mac Aoidh, A. Koinis, M. Bertolotto (2006) Improving Archaeological Heritage Information Access Through a Personalised GIS Interface *Proceedings 6th International Symposium on Web and Wireless Geographical Information Systems (W2GIS'06)* , Hong Kong, 135 - 145

Rizzini, K. Gardiner, M. Bertolotto, J. Carswell (2006) MEMS Mobile GIS: A Spatially Enabled Fish Habitat Management System *Proceedings 6th International Symposium on Web and Wireless Geographical Information Systems (W2GIS'06)* , Hong Kong, 113 - 122

S. Di Martino, F. Ferrucci, M. Bertolotto, T. Kechadi (2006) Towards a flexible system for exploratory spatio-temporal

data mining and visualization *Proceedings GIScience Workshop on Visualization, Analytics and Spatial Decision Support* , Münster, Germany,

M-T. Kechadi, M. Bertolotto (2006) A Visual Approach for Spatio-Temporal Data Mining *Proceedings IEEE International Conference on Information Reuse and Integration (IEEE IRI'06)* , Hawaii, USA, 504 - 509

D. O'Sullivan, M. Bertolotto, D. Wilson, E. McLoughlin (2006) Fusing Mobile Case-Based Decision Support with Intelligent Patient Knowledge Management *Proceedings CBR in the Health Sciences ECCBR'06 Workshop* , Olüdeniz/ Fethiye, Turkey,

Professor Philip Boland

Books

Boland, P. J. (2007) *Statistical and Probabilistic Methods in Actuarial Science*. Boca Raton: Chapman & Hall/CRC.
http://www.crcpress.com/shopping_cart/products/product_detail.asp?sku=C6951

Peer Reviewed Journals

Boland, P.J. and Ni Chuiv, N. (2007) 'Optimal Times for Software Release when Repair is Imperfect'. *Statistics and Probability Letters*, 77 :1176-1184.

Boland, P.J. (2007) 'The Probability Distribution for the Number of Successes in Independent Trials'. *Communications in Statistics*, 36 :1327-1331.

Professor Thomas Bolger

Peer Reviewed Journals

Coll, M. and Bolger, T. (2007) 'Biodiversity and species composition of Carabidae in Irish coniferous forests: additional insight from the use of paired sites in comparisons with the fauna of open habitats'. *BIOLOGY AND ENVIRONMENT*, 107 (1):1-11.

Sheehan, C., Kirwan, L., Connolly, J. and Bolger, T. (2007) 'The effects of earthworm functional group diversity on earthworm community structure'. *PEDOBIOLOGIA*, 50 :479-487.

Stofer, S., Bergamini, A., Aragon, G., Carvalho, P., Coppins, B.J., Davey, S., Dietrich, M., Farkas, E., Kärkkäinen, K., Keller, C., Lökös, L., Lommi, S., Máguas, C., Mitchell, R., Pinho, P., Rico, V.J., Truscott, A-M., Wolseley, P.A., Watt, A. and C. Scheiddegger. (2006) 'Species richness of lichen functional groups in relation to land use intensity'. *The Lichenologist*, 38 (4):331-353.

Murray, D.A. and Murray, W.A. (2006) 'Notes on Six Chronomidae (Diptera, Insecta) New to Ireland from Co. Mayo'. *Bulletin of the Irish Biogeographical Society*, 30 :293-297.

Ms Vivienne Brophy

Conference Publications

Brophy, V. (2006) Supporting the Adoption of an Integrated Design Process *World Conference Achieving Excellence in the Built Environment* , Birmingham,

Published Reports

Energy research Group, National Energy Services and Rickaby Thompson Associates (2007) *Study on the UK Standard Assessment Procedure with regard to meeting the requirements of the EU Energy Performance of Buildings Directive for Dwellings in Ireland*. SEI, Sustainable Energy Ireland(SEI) website. <http://www.sei.ie>

Dr Michael Bruen

Book Chapters

Bruen, M. (2006) 'Radar information in hydrological modelling' In: In Rossa, A., Bruen, M. Fruhwald, D., Macpherson, B., Holleman, I., Michelson, D. and Michaelides, S (eds). *Use of Radar Observations in Hydrological and NWP Models*. Luxembourg: Office for Official Publications of the European Communities.

Bruen, M. & Macpherson, B. (2006) 'User requirements' In: In Rossa, A., Bruen, M. Fruhwald, D., Macpherson, B., Holleman, I., Michelson, D. and Michaelides, S (eds). *Use of Radar Observations in Hydrological and NWP Models*. Luxembourg: Office for Official Publications of the European Communities.

Books Edited

Rossa, A., Bruen, M., Fruhwald, D., Macpherson, B., Holleman, I., Michelson, D. and Michaelides, S. (eds) (Ed.). (2006) *Use of radar observations in hydrological and NWP models*. Luxembourg: Office for Official Publications of the European Communities.

Peer Reviewed Journals

M. Razali, Y.Q. Zhao and M. Bruen (2007) 'Effectiveness of a drinking-water treatment sludge in removing different phosphorus species from aqueous solution'. *Separation and Purification Technology*, 55 (3):300-306.

Dest, M.B., Bruen, M., Higgins, N. & Johnston, P. (2007) 'Highway runoff quality in Ireland'. *Journal of Environment Monitoring*, 9 (4):366-371.

Nasr, A., Bruen, M., Jordan, P., Moles, R., Kiely, G. & Byrne, P. (2007) 'A comparison of SWAT, HSPF and SHETRAN/GOPC for modelling phosphorus export from three catchments in Ireland'. *Water Research*, 41 (5):1065-1073.

Bruen, M. & Dooge, J.C.I. (2007) 'Harmonic Analysis of the stability of reverse routing in channels'. *Hydrology and Earth Systems Sciences*, 11 (1):559-568.

Taskinen, A. & Bruen, M. (2007) 'Incremental distributed modelling investigation in a small agricultural catchment: 1) overland flow with comparison with Unit Hydrograph model'. *Hydrological Sciences Journal*, 21 (1):80-91.

Taskinen, A. & Bruen, M. (2007) 'Incremental distributed modelling investigation in a small agricultural catchment: 2) erosion and phosphorus transport'. *Hydrological Processes*, 21 (1):92-102.

Bruen, M. & Yang, J. (2006) 'Improving the performance of hydraulic models for urban stormwater drainage systems, using simple black box models'. *Hydrologic Engineering*, 11 (6):589-596.

Conference Publications

Higgins, N., Johnston, P., Gill, L., Desta, M. & Bruen, M. (2007) Characteristics of runoff from major highways in Ireland and management implications *11th International Conference on Diffuse Pollution and 1st Joint Meeting of the IWA Diffuse Pollution and Urban Drainage Specialist Groups* ,

Bruen, M. and Kelly, M. and Magette, W. (2006) WINCOMS: Water Framework Directive - Integration, Negotiation and Communication of Optimal Measures with Stakeholders *Internat. Conf. Man and River Systems II: Interactions among rivers, their watersheds and the sociosystem* , Paris, 45 - 48

Bruen, M. & Dooge, J.C.I. (2006) Harmonic analysis of the stability of reverse routing in channels *Geophysical Research Abstracts* ,

Dr Craig H Bullock

Book Chapters

Bullock, C (2006) 'Using Choice Experiments to Value Urban Greenspace' In: Pearce, D (eds). *Environmental Valuation in Developed Countries* . Cheltenham and Northampton: Edward Elgar.

Conference Publications

Craig Bullock and David Styles (2007) The Sustainability of Irish Agriculture *Comhar-Towards Sustainability* , Dublin,

Dr Hugh Campbell

Peer Reviewed Journals

Hugh Campbell (2007) 'The bright edifice of community: politics and performance in Hans Scharoun's Berlin Philharmonie'. *Architectural Research Quarterly*, 11 (2):159-166.

<http://journals.cambridge.org/action/displayIssue?jid=ARQ&volumeld=11&issuelid=02>

Other Journals

Hugh Campbell (2007) 'The Civic Gospel: ABK Civic Office, Cork' *Architecture Ireland* .

Conference Publications

Campbell, H. (2007) Musik am Mittelpunkt: Scharoun, von Karajan and the Berlin Philharmonie *Building in the Public Realm, The 5th Savannah Symposium* ,

Hugh Campbell (2007) City and Text: Curating Joyce in Dublin *4th annual AHRA conference, Kingston University, November 16-17, 2007* ,

Hugh Campbell (2007) The Qualia of Architecture Experienced: on Sullivan, Szarkowski, autobiographies and ideas *Quality, International Architectural Conference, Welsh School of Architecture Cardiff, July 2007* ,

Hugh Campbell & Brian Ward (2007) Google Search: looking for the internet giant in the post-industrial city *Architecture in the Space of Flows, Newcastle University, June 2007* ,

Hugh Campbell (2007) History Images: How Photography portrays change in contemporary China *Global Photographies, IADT, Dublin, June 2007* ,

Campbell, H. (2006) The Bright Edifice of Community: Politics and Performance in Hans Scharoun's Berlin Philharmonie *The Politics of Making, Architectural Humanities Research Association annual conference* , Oxford, UK,

Hugh Campbell (2006) 'The Bright Edifice of Community?': politics and performance in Hans Scharoun's Berlin Philharmonie *3rd annual AHRA conference, Oxford, November 2006* ,

Campbell, H. (2006) Unconscious Choreography: The patterns of street life in Helen Levitt's 'A Way Of Seeing' *Friction and Flow in the American City, New York Metro American Studies Association Conference* , New York, USA,

Dr Hamish Alan Carr

Peer Reviewed Journals

Weber, GH; Dillard, SE; Carr, H; Pascucci, V; Hamann, B; (2007) 'Topology-controlled volume rendering'. *IEEE TRANSACTIONS ON VISUALIZATION AND COMPUTER GRAPHICS*, 13 (2):330-341.

Professor Peter Clinch

Peer Reviewed Journals

Clinch, J.P., Dunne, L., Dresner, S. (2006) 'Environmental and Wider Economic Implications of Political Impediments to Environmental Tax Reform'. *Energy Policy*, 34 (8):960-970.

Clinch, JP (2006) 'Third party rights or appeal: enhancing democracy or hindering progress'. *Planning Theory and Practice*, 7 (3):327-330.

Clinch, J.P. (2006) 'Do planners need to be psychologically profiled? Editorial'. *Planning Theory and Practice*, 7 (4):361-364.

Kelly, J.A. and Clinch, J.P. (2006) 'Influence of varied parking tariffs on parking occupancy levels by trip purpose'. *Transport Policy*, 13 (6):487-495.

Dresner, S., Dunne, L., Clinch, P., Beuermann, C. (2006) 'Social and Political Response to Environmental Tax Reform in Europe'. *Energy Policy*, 34 (8):895-904.

Other Journals

Finbarr Brereton, J. Peter Clinch and Susana Ferreira (2006) 'Environmental Amenities and Subjective Well-Being: Testing the Validity of Hedonic Pricing' *PLANNING AND ENVIRONMENTAL POLICY RESEARCH SERIES* .

Susana Ferreira, Mirko Moro and J. Peter Clinch (2006) 'Valuing the Environment using the Life-Satisfaction Approach' *PLANNING AND ENVIRONMENTAL POLICY RESEARCH SERIES* .

Dr John Connolly

Peer Reviewed Journals

Connolly, J., Holden, N.M and Ward, S.M. (2007) 'Mapping Peatlands in Ireland using a Rule-Based Methodology and Digital Data'. *Soil Science Society of America Journal*, 71 :492-499.
<http://soil.scijournals.org/cgi/content/abstract/71/2/492>

Other Journals

Connolly, J, Holden, N. M and Ward, S. M. (2006) 'Detecting vegetation change with remote sensing: an evaluation of threshold limits for blanket bog' *Biosystems engineering research review* .

Conference Publications

Connolly, J., Roulet, N., Seaquist, J., Holden, N., Lafleur, P., Humphreys, E., Heumann, B., Ward, S. (2007) Using satellite and flux tower data to derive the light use efficiency for two Canadian peatlands *Carbon in Peatlands* , Wageningen (Netherlands),

Connolly, J. and Holden, N. M (2006) Using GIS and remote sensing to study the Irish peatland resource *Irish Peat Society* , Dublin, Ireland,

Published Reports

Ward, S. M., Connolly, J., Walsh, J., Dahlmann, L. and Holden, N. M. (2007) *CLIMATE CHANGE ? Modelling Carbon Fluxes from Irish Peatlands: Towards the Development of a National Carbon Fluxes Inventory for Irish Peatlands (2000-LS-5.1.2b-M1) Synthesis Report* . EPA,
www.epa.ie/downloads/pubs/research/climate/ward%20report%20for%20web.pdf.

Mr Patrick Connolly

Other Journals

Bates, A.M. et al., (2007) 'Challenges to a micromanufacturing industry in Ireland' *Int. J. Nanomanufacturing*, 1 (4):537-544. <http://www.inderscience.com/browse/index.php?journalID=180&year=2007&vol=1&issue=4>

Professor Frank Convery

Book Chapters

Convery, F.J., Dunne, L. and Gallagher, L. (2006) 'Mobilising the market to reduce household waste going to final disposal in Ireland: A preliminary exploration' In: M. Murphy (eds). *The Cost of Waste Disposal* . Cork, Ireland: Sherkin Island Marine Station.

Peer Reviewed Journals

Convery, F.J. (2007) 'Making a difference - how environmental economists can influence the policy process - a case study of David W Pearce'. *Environmental and Resource Economics*, 37 :7-32.

Convery, F.J. and Redmond, L. (2007) 'Market and Price Developments in the European Union Emissions Trading Scheme'. *Review of Environmental Economics and Policy*, 1 (1):88-111.

Convery, F.J., McDonnell, S., and Ferreira, S. (2007) 'The Most Popular Tax in Europe? Lessons from the Irish Plastic Bag Levy'. *Environmental and Resource Economics*, 38 (1):1-11.

Convery, F.J., Halbert, L., and Thierstein, A. (2006) 'Reflections on the Polycentric Metropolis'. *Built Environment*, 32 (2):110-113.

Convery, F.J., McInerney, D., Sokol, M. and Stafford, P. (2006) 'Organising Space in a Dynamic Economy: Insights for Policy from the Irish Experience'. *Built Environment*, 32 (2):172-183.

Other Journals

Convery, F.J., McInerney, D., Sokol, M., and Stafford, P. (2006) 'Organising Space in a Dynamic Economy: Insights for Policy from the Irish Experience' *Built Environment*, 32 (2):172-183.

McDonnell, S., Ferreira, Convery, F., (2006) 'Impact of Bus Priority Attributes on Catchment Area Residents in Dublin, Ireland' *Journal of Public Transportation* .

Convery, F.J., and O'Reilly, G. (2006) 'Issues in Trans-frontier Policy Support for Wind Energy: the Ireland UK Situation' *Environmental Economics?Institutions, Competition, Rationality*, 10 :187-206.

Dr Tom Curran

Peer Reviewed Journals

Garry, B.P., Fogarty, M., Curran, T.P., O'Connell M.J. and O'Doherty, J.V. (2007) 'The effect of cereal type and enzyme addition on pig performance, intestinal microflora, and ammonia and odour emissions'. *Animal*, 1 (5):751-757.

Garry, B.P., Fogarty, M., Curran, T.P. and O'Doherty, J.V. (2007) 'Effect of cereal type and exogenous enzyme supplementation in pig diets on odour and ammonia emissions'. *Livestock Science*, 109 (1-3):212-215.

Conference Publications

Solan, P.J., Curran, T.P., Dodd, V.A., Wilkes, R., Heavey, M. and Dennison, G. (2007) Assessment of the suitability of alternative landfill daily cover materials *Proceedings Sardinia 2007, Eleventh International Waste Management and Landfill Symposium* ,

Curran, T.P., Blaney, C., Cummins, E.J., Holden, N.M. and McDonnell, K.P. (2007) The Biosystems Engineering Design Challenge at University College Dublin *ASABE Annual Meeting* , Minneapolis. USA,

Curran, T.P., Magette, W.L. and Dodd, V.A. (2007) Evaluation of ISC3 and CALPUFF Atmospheric Dispersion Models for Odor Nuisance Prediction *ASABE Annual Meeting* , Minneapolis. USA,

Fogarty, M., Curran, T., Dodd, V. and Stewart, J. (2006) Sensor array for the measurement of malodour concentration from intensive agricultural sources. Paper No. 476 *World Agricultural Engineering (CIGR) Conference* , Bonn, Germany,

Dr Corrado Di Maria

Book Chapters

Sjak Smulders, CORRADO DI MARIA (2006) 'Trade Pessimists vs Technology Optimists: Induced Technical Change and Pollution Havens' In: *The Economics of Pollution Havens* . Cheltenham: Edward Elgar Publishing.

Conference Publications

Di Maria, C. and P. Striszowski (2007) Migration, Human Capital Accumulation and Economic Development *XXII Annual Congress European Economic Association* ,

Smulders, S. and C. Di Maria (2007) Endogenous Technical Change and the Cost of Environmental Policy *XV Annual Conference of the European Association of Environmental and Resource Economists* , Thessaloniki,

Di Maria, C. Valente, S. (2006) The Direction of Technical Change in Capital-Resource Economies *3rd World Congress Environmental and Resource Economists* , Kyoto,

Di Maria, C. Valente, S. (2006) The Direction of Technical Change in Capital-Resource Economies *Monte Verità Conference on Sustainable Resource Use and Economic Dynamics -SURED 2006* ,

Professor Sheelagh Drudy

Book Chapters

Drudy, S. & Clarke, M. (2007) 'Social justice in initial teacher education: student teachers' reflections on praxis' In: G Bhatti, C. Gaine, F. Gobbo, Y. Leeman (eds). *Social Justice and Intercultural Education: an Open-ended Dialogue* . London: Trentham Books.

Peer Reviewed Journals

Drudy, S. (2006) 'Gender Differences in Entrance Patterns and Awards in Initial Teacher Education'. *Irish Educational Studies*, 29 (3):259-273.

Drudy, S. & Clark, M. (2006) 'Teaching for Diversity, Social Justice and Global Awareness'. *European Journal of Teacher Education*, 29 (3):371-386.

Conference Publications

Drudy, S. (2006) The University and Civil Society: Education for Democracy and the Public Good . In: A. Lavan eds. *The University and Society: From Newman to the Market, Conference Proceedings* , Dublin: UCD College of Human Sciences,

Dr Louise A Dunne

Book Chapters

Louise Dunne (2006) 'An Investigation into Waste Taxes and Charges' In: Cavaliere, A., Ashiabor, H., Deketelaere, K., Kreiser, L., Milne, J (eds). *Critical Issues in Environmental Taxation. International and Comparative Perspectives* . Richmond, London: Richmond Law & Tax.

Louise Dunne, Convery, F.J. and Gallagher, L. (2006) 'Mobilising the market to reduce household waste going to final

disposal in Ireland: A preliminary exploration' In: M. Murphy (eds). *The Cost of Waste Disposal* . Cork, Ireland: Sherkin Island Marine Station.

Peer Reviewed Journals

Clinch, J.P., Dunne, L., Dresner, S. (2006) 'Environmental and Wider Economic Implications of Political Impediments to Environmental Tax Reform'. *Energy Policy*, 34 (8):960-970.

Dresner, P., Dunne, L., Clinch, J.P. Beuermann, C. (2006) 'Social and Political Responses to Ecological Tax Reform in Europe'. *Energy Policy*, 34 (8):895-904.

Dr Paul Fanning

Conference Publications

Fanning, P.J., Healy, P., Pavic, A., Reynolds, P. and Brownjohn, J. (2007) Sean O'Casey bridge: Comparison of Operational & Traditional Modal Analysis Test Results . In: R. Brincker eds. *2nd International Operational Modal Analysis Conference* , R. Brincker and N.Moller, 293 - 298

Atamturktur, S., Fanning, P.J. and Boothby, T.E. (2007) Traditional and Operational Modal Testing of the Washington National Cathedral . In: R. Brincker and N. Moller eds. *2nd International Operational Modal Analysis Conference* , Copenhagen, 169 - 176

Dr Susana Ferreira

Peer Reviewed Journals

Ferreira, S. (2007) 'Trade Policy and Natural Resource Use: The Case for a Quantitative Restriction'. *Environmental and Resource Economics*, 37 (2):361-376.

Convery, F.; McDonnell, S; **Ferreira, S.** (2007) 'The Most Popular Tax in Europe? Lessons from the Irish Plastic Bag Levy'. *Environmental and Resource Economics*, 38 (1):1-11.

McDonnell, S., **Ferreira, S.** , Convery, F. (2006) 'Impact of Bus Priority Attributes on Catchment Area Residents in Dublin, Ireland'. *Journal of Public Transportation*, 9 (3):137-162.

Conference Publications

Brereton, F.; Clinch, J. P. and **Ferreira, S.** (2007) Happiness, Geography and the Environment *Policies for Happiness, International Conference* ,

McDonnell, S.; **Ferreira, S.** and Convery, F. (2007) Bus Priority Provision and Willingness to Pay Differentials As a Result of Modal Choice and Residential Location ? Evidence from a Stated Choice Survey *15th Annual Conference of the European Association of Environmental and Natural Resource Economists* ,

McDonnell, S.; **Ferreira, S.** and Convery, F. (2007) Using Bus Rapid Transit to Mitigate Emissions of CO2 from Transport *15th Annual Conference of the European Association of Environmental and Natural Resource Economists* ,

Brereton, F.; Clinch, J. P. and **Ferreira, S.** (2006) Environmental amenities and subjective well-being: Testing the Validity of Hedonic Pricing *Second Conference of the Hispano-Portuguese of Environmental and Natural Resource*

Dr Donal Patrick Finn

Peer Reviewed Journals

Finn D.P., Connolly D and Kenny P (2007) 'Sensitivity studies on a maritime building subject to night cooling'. *SOLAR ENERGY*, 81 (6):697-710.

Other Journals

Finn, D.P., Timoney, D., Kelehan, R. and Brophy, B (2006) 'Indirect Multi-Temperature Refrigeration Systems' *Revue Generale du Froid*, 1069 :38-45.

Conference Publications

Smyth, S, Brophy, B., Finn, D.P., Timoney, D.J (2007) Performance Evaluation of Secondary Loop Systems for Multi-Temperature Transport Refrigeration *Int. Institute of Refrigeration, 22nd World Congress* , Beijing, China,

Gaffney, B, Brophy, B., Finn, D.P., Timoney, D.J (2007) Mathematical Modeling of Multi-Temperature Indirect Refrigeration Systems *Int. Institute of Refrigeration, 22nd World Congress* , Beijing, China,

Horan, J.M, Finn, D.P. (2007) Internal Airflow Sensitivity in a Naturally Ventilated Atrium subject to Variation in External Wind Conditions *28th AIVC Air Infiltration and Ventilation Conf* , Crete,

Burke, K, Kenny, P., Finn, D.P. (2007) Analysis of the EPBD Energy Performance Grading of Buildings *2nd PALENC Conference* , Greece,

Dr David FitzPatrick

Peer Reviewed Journals

Walsh, J., Quinlan, J., Stapleton, R., FitzPatrick, D. and McCormack, D. (2007) '3-Dimensional Motion Analysis of the Lumbar Spine during 'free-squat' weight lift training'. *American Journal of Sports Medicine*, 35 (6):927-932.

Doheny EP, Lowery MM, FitzPatrick DP, O'Malley MJ (2007) 'Effect of elbow joint angle on force-EMG relationships in human elbow flexor and extensor muscles'. *Journal of Electromyography and Kinesiology* .

Fitzpatrick, C., FitzPatrick D, Auger D. and Lee, J. (2007) 'A tibial-based coordinate system for three-dimensional data'. *Knee*, 14 (2):133-137.

Fitzpatrick, C., FitzPatrick D, Auger D. and Lee, J. (2007) 'Statistical design of unicompartmental tibial implants and comparison with current devices'. *Knee*, 14 (2):138-144.

Conference Publications

Heidari, B., FitzPatrick, D., McCormack, D. and Synott, K. (2007) Spinal Finite Element Model Development - An analytical Tool in the Search for the Aetiology of Spinal Deformities *2007 Summer Workshop of the European Society of*

Doheny E.P., Lowery M.M., FitzPatrick D.P. and O'Malley M.J. (2007) A neuromusculoskeletal model of the elbow joint for pre-clinical testing of total elbow replacement *29th IEEE Engineering in Medicine and Biology Conference* ,

Fitzpatrick, C., FitzPatrick, D., Auger, D., Ishibashi, H. (2007) A 3D principal component analysis of the proximal tibia in Japanese and Caucasian subjects *80th Annual Congress of the Japanese Orthopaedic Association* ,

Fitzpatrick, C., FitzPatrick, D., Lee, J., Auger, D. (2007) An application of principal component analysis to resection surface geometry of the knee *Bioengineering in Ireland (13)* ,

Dawson, S.P., van der Merwe, W., FitzPatrick, D. and Vaughan, C.L. (2006) Application of 3D Imaging Technology to Anterior Cruciate Ligament Surgery *World Congress on Medical Physics and Biomedical Engineering 2006* ,

Dr Kenneth Gavin

Books Edited

NiNuallain, Nora Aine, O'Connor, Alan and Gavin, Kenneth (Ed.). (2006) *Proceedings of the 3rd National Bridge and Transportation Infrastructure Symposium* . Dublin:

Peer Reviewed Journals

J.Xue and K.Gavin (2007) 'Simultaneous determination of the critical slip surface and reliability index of earth slopes using a genetic algorithm'. *Journal of Geotechnical and Geoenvironmental Engineering*, 133 (7):878-886.

K.Gavin & J.Xue (2007) 'A simple approach to analyse infiltration into unsaturated slopes'. *Computers and Geotechnics*, online (DOI 10.1016/j.compge). <http://www.elsevier.com>

K.Gavin & B.O'Kelly (2007) 'Effect of friction fatigue on piles in dense sand'. *ASCE JOURNAL OF GEOTECHNICAL AND GEOENVIRONMENTAL ENGINEERING*, 133 (1):63-71.

K.G.Gavin & B.M.Lehane (2007) 'Base Load-Displacement Response of Piles in Sand'. *Canadian Geotechnical Journal*, 44 (9):1053-1063.
<http://rparticle.web-p.cisti.nrc.ca/rparticle/AbstractTemplateServlet?calyLang=eng&journal=cgj&volume=44&year=0&issue=9&msno=t07-048>

Conference Publications

David Gallagher and Kenneth Gavin (2007) An investigation of the effect of partial plugging on the shaft capacity of open-ended piles in clay . In: Howard Olsen eds. *GeoDenver 2007* , Denver,

Kenneth Gavin, David Gallagher and Bryan McCabe (2007) Design of Piles in Soft Clay *Proceedings of Seminar of Soft Ground Engineering* ,

David Gallagher and Kenneth Gavin (2006) Experimental Investigation of Open and Closed Ended Piles in Clay *19th Australasian Conference on the Mechanics of Structures and Material* ,

David Gallagher and Kenneth Gavin (2006) Investigation of depth effects on shaft friction of piles in Clay *19th Australasian Conference on the Mechanics of Structures and Material* ,

Paul Doherty, Paul Casey and Kenneth Gavin (2006) Suitability of Macamore clay as an embankment fill and the role of soil suction in embankment stability *3rd National Bridge and Transportation Infrastructure Symposium* ,

Jianfeng Xue and Kenneth Gavin (2006) Infiltration analysis for partly saturated soil slopes *3rd National Bridge and Transportation Infrastructure Symposium* ,

David Cadogan, Kenneth Gavin and Lloyd Twomey (2006) Axial Capacity of CFA piles *3rd National Bridge and Transportation Infrastructure Symposium* ,

David Igoe, Kenneth Gavin and Brendan O'Kelly (2006) The base resistance of an open-ended pile installed in medium dense sand *Proceedings of the 3rd National Bridge and Transportation Infrastructure Symposium* ,

Dr Amanda Gibney

Conference Publications

Tabakovic, A., Gilchrist, M.D., McNally, C. and Gibney, A. (2006) A Continuum Damage Mechanics Based Constitutive Model for Bituminous Materials *Proceedings of 3rd National Symposium on Bridge and Infrastructure Research in Ireland* , Dublin, Ireland, 223 - 230

Tabakovic, A., Gibney, A., Gilchrist, M.D., McNally, C. (2006) The Influence of Recycled Asphalt Pavement on 20mm Binder Course Mix Performance *Proceedings of 3rd National Symposium on Bridge and Infrastructure Research in Ireland* , Dublin, Ireland, 287 - 294

Dr Arturo Gonzalez

Peer Reviewed Journals

Harris, N., O'Brien E. and González, A. (2007) 'Reduction of Bridge Dynamic Amplification through Adjustment of Suspension Damping'. *Journal of Sound and Vibration*, 302 :471-485.

Conference Publications

González, A. (2007) The Use of Wavelets for Axle Detection in Bridges *Proceedings of 12th Asia Pacific Vibration Conference, APVC 2007* , Sapporo, Japan,

Cantero, D., González, A. & O'Brien, E.J. (2007) The Use of Ramp Superposition to Analyse the Influence of Road Irregularities on Maximum Beam Stresses due to a Moving Load . In: B.H.V. Topping, G. Montero and R. Montenegro, (Editors), Civil-Comp Press eds. *Proceedings of the Eleventh International Conference on Civil, Structural and Environmental Engineering Computing* , St. Julians, Malta,

O'Brien, E.J., González, A., Caprani, C., Li Y., Rattigan, P. & Harris, N. (2006) Bridge Dynamics and Loading . In: Eds. N.A. Nuallain, A. O'Connor & K. Gavin eds. *Proceedings of Third Symposium on Bridge & Infrastructure Research Activity in Ireland* , Dublin, Ireland, 347 - 359

Rowley, C., O'Brien, E.J. & González, A. (2006) A Regularised Solution to the Bridge Weigh-In-Motion Equations . In: Eds. N.A. Nuallain, A. O'Connor & K. Gavin eds. *Proceedings of Third Symposium on Bridge & Infrastructure Research Activity in Ireland* , Dublin, Ireland, 141 - 151

Rattigan, P., González, A., O'Brien, E.J. & Caprani, C. (2006) Determination of Characteristic Bridge DAF using Dynamic Finite Element Analysis of Critical Static Loading Scenarios . In: Eds. N.A. Nuallain, A. O'Connor & K. Gavin

Professor Nick Holden

Books

Ward, S., J. Connolly, J. Walsh, L. Dahlman, N. M. Holden (2007) *Climate Change ? modelling carbon fluxes from Irish peatlands: towards the development of a national carbon fluxes inventory for Irish peatlands*. Wexford: Environmental Protection Agency. <http://www.epa.ie>

Peer Reviewed Journals

García-Quijano, J.F., J. Peters, L. Cockx, G. van Wyk, A. Rosanov, G. Deckmyn, R. Ceulemans, S. M. Ward, N. M. Holden, J. Van Orshoven and B. Muys (2007) 'Carbon sequestration and environmental effects of afforestation with *Pinus radiata* D. Don in the Western Cape, South Africa'. *Climate Change*, 83 :323-355.

Ayalew, G., N. M. Holden, S M. Ward (2007) 'Microwave Dielectric Properties of Horticultural Peat Products'. *Mires and Peatlands*, 2 .

Connolly, J., N M. Holden, S M. Ward (2007) 'Mapping peatland extent in Ireland using a rule-based methodology and digital data'. *SOIL SCIENCE SOCIETY OF AMERICA JOURNAL*, 71 :492-499.

Moges, A., N. M. Holden (2007) 'Farmer perception of soil erosion and fertility loss in a food insecure catchment in southern Ethiopia'. *Land Degradation and Development*, 18 :543-555.

Carroll, J.P. and Holden, N.M. (2006) 'Modeling the Relationship between Patch Sprayer Performance and Weed Distribution. 1: Model Testing'. *Transactions of the American Society of Agricultural Engineers* .

Casey, J.W. and Holden, N.M. (2006) 'GHG emissions from mid-season lamb production in Ireland'. *Irish Journal of Agricultural and Food Research* .

Zintl A., Mulcahy G., De Waal T., De Waele V., Byrne C., Clyne M., Holden N. M. and Fanning S. (2006) 'An Irish perspective on *Cryptosporidium* (part II)'. *IRISH VETERINARY JOURNAL*, 59 :495-500.

Other Journals

McNulty, P. and N. M. Holden (2007) 'Biosystems Engineering Research Review' *Biosystems Engineering Research Review*, 12 .

McNulty, P. and Holden, N.M. (2006) 'Biosystems Engineering Research Review 11. Biosystems Engineering Department, UCD, May 2006' *Biosystems Engineering Research Review* .

Conference Publications

Berzano, M., T. Murphy, N. M. Holden (2007) Towards developing an environmental risk assessment model for cryptosporidiosis *2nd International Giardia and Cryptosporidium Conference* , Morelia-Michoacán, México,

Curran, T.P., C. Blaney, E. J. Cummins, N M. Holden, K. P. McDonnell. (2007) The Biosystems Engineering Design Challenge at University College Dublin *American Society of Agricultural Engineers, Annual International Meeting* ,

Minneapolis, Minnesota,

Connolly, J., Roulet, N., Seaquist, J., Holden, N. M., Lafleur, P., Humphreys, E., Heumann, B., Ward, S. (2007) Using satellite and flux tower data to derive the light use efficiency for two Canadian peatland *Carbon in Peatlands* , Wageningen,

Kramers, G., K. Richards and N. M. Holden (2007) Characterisation of unsaturated infiltration mechanisms in Irish grassland soils *British Society of Soil Science Young Scientists meeting* ,

Kramers, G., F. Brennen, K. Richards and N. M. HOLDEN (2006) Preferential flow in Irish grassland soils: occurrence and extent *EPA Soils Workshop, Tullamore* ,

Kramers, G., K. Richards, N.M. HOLDEN (2006) Saturated and unsaturated infiltration into an Irish grassland soil: preliminary evidence of preferential flow *Agricultural Research Forum, 15-16 March, Tullamore* ,

Tunney, H., G. Kiely, P. Jordan, R. Moles, K Daly, G. Morgan, I. Kurz, D. Ryan, E. Jennings, K. Irvine, N HOLDEN, D Doody, D Bourke, P Byrne, C O'Reilly, O Carton and D Fay (2006) Phosphorus Loss from Agriculture to Water in Ireland *World Congress of Soil Science, Philadelphia, Pennsylvania* ,

Ayalew, G., Holden, N.M. & Ward, S.M. (2006) Comparison of Simple Shape Measures and Fourier Descriptors as applied to the Identification of High-injury-risk Glass Contaminants in Horticultural Peat. American Society of Agricultural Engineers *Annual International Meeting, Portland, Oregon* ,

Casey, J.W. & Holden, N.M. (2006) Greenhouse gas emissions from Irish grassland livestock production systems *21st Meeting of the European Grassland Federation, 3-6 April, Badajoz, Spain. Grassland Science in Europe* ,

Dr A Horner

Books

Horner, A. (2006) *Mapping Offaly in the early nineteenth century: with an atlas of William Larkin's map of King's County 1809*. Bray: Wordwell.

Book Chapters

Horner, A. (2006) 'Developing the Bogs of County Kildare: Reports to the Bogs Commissioners 1809-1814' In: W. Nolan & T. McGrath (eds) (eds). *Kildare: History & Society* . Dublin: Geography Publications.
<http://www.ucd.ie/gpep/gpepinfo/research/abstracts/kildare-history-society.html>

Horner, A. (2006) 'The fate of Feltrim Hill' In: Clíodhna Ní Anluain (eds). *Sunday miscellany: a selection from 2004-2006* . Dublin: New Ireland.

Other Journals

Horner, A. (2006) 'John Rennie's documents relating to the planning of Dun Laoghaire harbour 1815-1816' *Dublin Historical Record*, 59 (2):182-200.

Dr Peter Keenan

Book Chapters

Keenan, P (2007) 'Using a GIS as a DSS generator' In: *Geographic Information System* . Hyderabad: ICFAI University Press.

Brabazon, Anthony ,Delahunty, Alice ,O'Callaghan, Denis ,Keenan, Peter ,O'Neill, Michael (2006) 'Financial Classification using an Artificial Immune System' In: *Business Applications and Computational Intelligence* . Idea Group Publishing.

Brabazon, Anthony,Carty, Edward,Keenan, P,Meagher, Katrina,O'Neill, Michael (2006) 'Intra-day Trading using Grammatical Evolution' In: *Biologically Inspired Algorithms for Financial Modelling* . Berlin: Springer-Verlag.

Brabazon, Anthony,Delahunty, Alice,Keenan, P,O'Callaghan, Denis,O'Neill, Michael (2006) 'Bond Rating using AIS' In: *Biologically Inspired Algorithms for Financial Modelling* . Berlin: Springer-Verlag.

Dr James Andrew Kelly

Peer Reviewed Journals

Kelly, J.A. and Clinch, J.P. (2006) 'Influence of varied parking tariffs on parking occupancy levels by trip purpose'. *Transport Policy*, 13 (6):487-495.

Mr Paul Kenny

Peer Reviewed Journals

D. Connolly, D. Finn and P. Kenny (2007) 'Sensitivity Analysis of a maritime located night ventilated library building'. *Solar Energy*, 81 (6):697-710.

Conference Publications

Hernandez, P., Kenny, P., Cohen, R. (2007) Energy ratings based on measured energy consumption *Sustainable Building 07* , Lisbon, Portugal,

Burke, K., Kenny, P., Finn, D. (2007) Sensitivity Analysis of the EPBD Energy Performance Grading of Buildings *PALENC* , Crete,

Dr James Kinsella

Books

D. O' Connor, H. Renting, M. Gorman, J. Kinsella (Eds.) (2006) *Driving Rural Development Policy: Policy and Practice in Seven EU Countries*. Assen, Netherlands: Van Gorcum.

Conference Publications

O'Brien, B., Gleeson, D., Ruane, D., Kinsella, J. and O'Donovan, K. (2007) Profile labour demand, resources and contribution on Irish dairy farms *The 16th International Farm Management Association Congress* , University College Cork, Ireland,

Dr Debra Fern Laefer

Peer Reviewed Journals

Pradhan, A., Laefer, D. & Rasdorf, W. (2007) 'Infrastructure Management System Framework Requirements for Disasters'. *Engineering Fracture Mechanics*, 21 (2):90-101.

Conference Publications

Laefer, D., Gassman, S. and Luke, B. (2007) Fostering Development of Women Faculty in Geotechnical Engineering . In: Olsen, H.W eds. *Geo-Denver 2007: New Peaks in Geotechnics* , 1 - 9

Laefer, D., Manke, J., Tucker, J., and Batten, Y (2007) Challenges to Model-Scale Testing for Composite Deep Foundations and Existing Foundation Enhancement . In: Olsen, H.W eds. *Geo-Denver 2007: New Peaks in Geotechnics, ASCE Spec* , 1 - 10

Laefer, D. & Manke, J. (2006) RUFUS Small-scaled Testing of Rehabilitation Pile Groups *Int'l Conf. Re-use of Foundations for Urban Sites* , Watford, UK,

Dr Michael Long

Peer Reviewed Journals

Long, M and Donohue, S. (2007) 'In situ shear wave velocity from multichannel analysis of surface waves (MASW) tests at eight Norwegian research sites'. *Canadian Geotechnical Journal*, 44 (5):533-544.

Long, M. (2007) 'Engineering characterisation of estuarine silts'. *Quarterly Journal of Engineering Geology and Hydrogeology*, 40 :147-161.

Hanzawa, H., Nutt, N., Lunne, T., Tang, Y.X. and Long, M. (2007) 'A comparative study between the NGI direct simple shear apparatus and the Mikasa direct shear apparatus'. *Japanese Geotechnical Society*, 47 (1):47-58.

Donohue, S. and Long, M. (2007) 'An assessment of the MASW technique incorporating discrete particle modelling'. *Journal of Environmental and Engineering Geophysics* .

Long, M. (2007) 'Comparing dynamic and static test results of bored piles'. *ICE Journal of Geotechnical Engineering*, 160 (1):43-49.

Long, M. (2006) 'Use of a downhole block sampler for very soft organic soils'. *Astm Geotechnical Testing Journal*, :426-438.

Conference Publications

Long, M. and Menkiti, C.O. (2007) Characterisation and engineering properties of Dublin Boulder clay . In: Tan, T.S. et al eds. *Proceedings 2nd International Workshop on Characterisation and Engineering Properties of Natural Soils (Natural Soils 2006)* , NUS Singapore, 2003 - 2045

Lunne, T., Long, M. and Uzielli, M (2007) Characterisation and engineering properties of Troll clay *Proceedings 2nd International Workshop on Characterisation and Engineering Properties of Natural Soils (Natural Soils 2006)* , NUS Singapore, 1939 - 1972

Long, M., Boylan, N. and O'Connor, S. (2007) The application of CPTU to soft soils and alternative techniques *Proceedings SGE - 2007, Soft Ground Engineering Conference* , Athlone, Ireland,

Long, M., Gudjonsson, G. and Callanan, F. (2007) Sampling, in situ testing and long term settlement of soft soils at the Loughmore Link embankments *Proceedings SGE - 2007, Soft Ground Engineering Conference* , Athlone, Ireland,

Donohue, S., Long, M. and O'Connor, P. (2007) The application of shear wave velocity to soft ground site investigation in Ireland *Proceedings SGE - 2007, Soft Ground Engineering Conference* , Athlone, Ireland,

Long, M and Donohue, S. (2006) In situ shear wave velocity from MASW surface waves at five Norwegian clay sites *Proc. 3rd. International Seminar on Soil Design Parameters from In Situ and Laboratory Tests* , Poznan, Poland,

Boylan, N. and Long, M. (2006) Characterisation of peat using full flow penetrometers . In: Chan & Law eds. *Proc. 4th Int. Conf. on Soft Soil Engineering (ICSSE)* , Vancouver, 403 - 414

Boylan, N. and Long, M. (2006) Determination of the decomposition of peat and its interpretation from fibrosity measurements and in situ penetration tests . In: Eds. O'Nuallain et al eds. *3rd. National Symposium on Bridge and Infrastructure Research in Ireland* , 251 - 259

Professor Peter Lynch

Peer Reviewed Journals

Bokhove, O. and Peter Lynch, (2007) 'Air parcels and air particles: Hamiltonian dynamics'. *Nieuw Arch. Wisk*, 5/8 (2):100-106.

Dr Bill Magette

Conference Publications

Purcell, Mary and Magette, William (2007) Characterisation Of Household And Commercial BMW Generation According To Socio-Economic And Other Factors For The Dublin Region . In: Merskey, R eds. *22nd Internation Conference on Solid Waste Technology and Management* ,

Hallissey, R. and Magette, W. (2006) The development and testing of a modified phosphorus scheme (mPRS) for Irish grasslands *Int. Symposium, Man and River Systems II: Interactions Among Rivers, Their Watersheds and the Sociosystem* , 105 - 107

Bruen, M. and Kelly, M. and Magette, W. (2006) WINCOMS: Water Framework Directive - Integration, Negotiation and Communication of Optimal Measures with Stakeholders *Internat. Conf. Man and River Systems II: Interactions among rivers, their watersheds and the sociosystem* , 45 - 48

Mr Colm McCarthy

Book Chapters

J. Fitz Gerald, C. McCarthy and E. Morgenroth (2006) 'Accompanying Measures' In: John FitzGerald and Edgar Morgenroth (eds). *Ex. Ante Evaluation of the Investment Priorities for the National Development Plan 2007-2013* . Dublin: Economic and Social Research Institute.

Peer Reviewed Journals

Lawlor, J., McCarthy, C., and Scott, S. (2007) 'Investment in Water Infrastructure: Findings from an Economic Analysis of a National Programme'. *Journal of Environmental Planning and Management*, 50 (1):41-63.

Dr James P McLaughlin

Peer Reviewed Journals

Z.S. ?unić, I.V. Yarmoshenko, K. Kelleher, J. Paridaens, J.P. Mc Laughlin, I. Čeliković, P. Ujić, A.D. Onischenko, S. Jovanović, A. Demajo, A. Birovljev and F. Bochicchio (2007) 'Comparison of retrospective and contemporary indoor radon measurements in a high-radon area of Serbia'. *Science of the Total Environment*, 387 (1-3):269-275.

Conference Publications

James Mc Laughlin and Francesco Bochicchio (2007) Radon & Lung Cancer *Proceedings of 1st EnVie Conference* , Helsinki, June 2007 ,

Dr Ciaran McNally

Peer Reviewed Journals

Söylev, T.A., McNally, C. & Richardson, M.G. (2007) 'Effectiveness of amino-alcohol based surface-applied corrosion inhibitors in chloride contaminated concrete'. *Cement and Concrete Research*, 37 (6):972-977.

Söylev, T.A., McNally, C. & Richardson, M.G. (2007) 'The effect of a new generation surface-applied organic inhibitor on concrete properties'. *Cement and Concrete Composites*, 27 (5):357-364.

Conference Publications

Horka, I., McNally, C., Richardson, M.G. (2006) The Influence of Adiabatic Curing on Early Prediction of Chloride Diffusion Coefficients . In: NA Ni Nuallain, A O'Connor, K Gavin eds. *3rd National Symposium on Bridge Infrastructure Research in Ireland* , Dublin, 215 - 222

McNally, C. & Richardson, M.G. (2006) Surface Applied Corrosion Inhibitors in Reinforced Concrete Bridges Indicative Performance Envelope . In: NA NiNuallain, A O'Connor, K Gavin eds. *3rd National Symposium on Bridge Infrastructure Research in Ireland* , Dublin, 269 - 278

Tabakovic, A., Gilchrist, M.D., McNally, C. and Gibney, A. (2006) A Continuum Damage Mechanics Based Constitutive Model for Bituminous Materials . In: NA NiNuallain, A O'Connor, K Gavin eds. *Proceedings of 3rd National Symposium on Bridge and Infrastructure Research in Ireland* , Dublin, 223 - 230

Tabakovic, A., Gibney, A., Gilchrist, M.D., McNally, C. (2006) The Influence of Recycled Asphalt Pavement on 20mm Binder Course Mix Performance . In: NA NiNuallain, A O'Connor, K Gavin eds. *3rd National Symposium on Bridge and Infrastructure Research in Ireland* , Dublin, 287 - 294

Professor Stephen Menell

Books

Mennell, S co-edited with René Moelker (2007) *The Genesis of the Naval Profession, by Norbert Elias (editor)*. Dublin: UCD Press.

Loyal, S. & Mennell, S. (eds) (2007) *An Essay on Time, by Norbert Elias*. Dublin: UCD Press.

Peer Reviewed Journals

Mennell, S (2006) 'Civilisation and Violence Control', contribution to NEP?ARK: New Encyclopaedia of Knowledge?New Archive of Knowledge'. *Theory, Culture and Society*, 23 (2-3):409-411.

Dr Gerald Mills

Peer Reviewed Journals

Mills, G. (2006) 'Progress towards sustainable settlements: A role for urban climatology'. *Theoretical and Applied Climatology* .

Conference Publications

Mills G. (2006) Cities as agents of global change *International Conference on Urban Climate* , Gothenburg,

Professor Grace V T Mulcahy

Peer Reviewed Journals

Tierney JB, Matthews E, Carrington SD, Mulcahy G. (2007) 'Interaction of Eimeria tenella with intestinal mucin in vitro'. *Journal of Parasitology* .

Flynn RJ, Mannion C, Golden O, Hacariz O, Mulcahy G. (2007) 'Experimental Fasciola hepatica infection alters responses to tests used for diagnosis of bovine tuberculosis'. *INFECTION AND IMMUNITY*, 75 :1373-1381.

Good B, Hanrahan JP, Crowley BA, Mulcahy G. (2006) 'Texel sheep are more resistant to natural nematode challenge than Suffolk sheep based on faecal egg count and nematode burden'. *VETERINARY PARASITOLOGY*, 136 :317-327.

Sekiya, M., G. Mulcahy, J. A. Irwin, C. M. Stack, S. M. Donnelly, W. Xu, P. Collins and J. P. Dalton (2006) 'Biochemical characterisation of the recombinant peroxiredoxin (FhePrx) of the liver fluke, Fasciola hepatica'. *Febs Lett*, :5016-5022.

Professor Eugene O'Brien

Peer Reviewed Journals

Harris, N. K. OBrien, E. J., González, A. (2007) 'Reduction of bridge dynamic amplification through adjustment of vehicle suspension damping'. *Journal of Sound and Vibration*, 302 :471-485.

Wilson, S.P., Harris, N.K. and OBrien, E.J. (2006) 'The use of Bayesian Statistics to predict patterns of spatial repeatability'. *Transportation Research*, 14 (5):303-315.

O'Brien, E. J., Quilligan, M. J. and Karoumi, R. (2006) 'Calculating an Influence Line from Direct Measurements'. *Bridge Engineering, Proceedings of the Institution of Civil Engineers*, 159 (BE1):31-34.

Conference Publications

Caprani, C.C. & O'Brien, E.J. (2006) Statistical Computation for Extreme Bridge Traffic Load Effects . In: B.H.V. Topping, G. Montero and R. Montenegro eds. *Eighth International Conference on Computational Structures Technology* , Las Palmas, Spain,

Rowley, C.W., O'Brien, E.J. & González, A. (2006) Moving Force Identification for Two-Span Continuous Bridges Using an Eigenvalue Reduction Technique . In: B.H.V. Topping, G. Montero and R. Montenegro eds. *Eighth International Conference on Computational Structures Technology* , Las Palmas,

Dr Deirdre O'Connor

Other Journals

Ni Dhubhain, A. & O'Connor, D. (2006) 'The Socio-Economic Contribution of Forestry in Ireland ? An Interdisciplinary Approach' .

Mr Gregory O'Hare

Book Chapters

O'Grady, M.J., O'Hare, G.M.P. (2007) 'Intelligent User Interfaces for Mobile Computing: Whence the Intelligence?' In: Jo Lumsden (eds). *Handbook of Research on User Interface Design and Evaluation for Mobile Technology* . *: The Idea Group.

O'Grady, M.J., O'Hare, G.M.P., Keegan, S. (2007) 'Intelligent Interaction Considerations in Mobile Computing' In: M. Virvou (eds). *Intelligent Interactive Systems in Knowledge-based Environments* . *: Springer Verlag Publishers.

Byrne, C.A., O'Grady, M.J., O'Hare, G.M.P. (2007) 'Ambient Intelligence in Perspective' In: Mehdi Khosrow-Pour (eds). *Encyclopaedia of Information Science & Technology 2nd Edition* . *: *.

G.M.P. O'Hare, , M. Dragone & T. Holtz (2007) 'Augmenting Reality with Intelligent Agents' In: L.C. Jain (eds). *Fusing Intelligence in Virtual Agents* . *: Springer-Verlag Publishers.

Ruzzelli, A., Tynan, R., O'Grady, M.J., O'Hare, G.M.P. (2006) 'Advances in Wireless Sensor Networks' In: D. Taniar (eds). *Encyclopedia of Mobile Computing & Commerce, Vol. 1* . *: Idea Group Inc.

Peer Reviewed Journals

O'Grady, M.J. O'Hare, G.M.P. Donaghy, C. (2007) 'Delivering Adaptivity through Context Awareness'. *Journal of Network and Computer Applications*, 30 (3):1007-1033.

Dobson, S. & O'Hare, G.M.P. (2007) 'Stability in the Face of Uncertainty in Autonomic Communications'. *Computer Networks: The International Journal of Computer and Telecommunications Networking*, 51 .

Shen, S. & O'Hare, G.M.P. (2007) 'Wireless Sensor Networks: an Energy-Aware and Utility-based BDI Agent Approach'. *International Journal of Sensor Networks*, 2 (3-4):237-247.

Other Journals

O'Kane, D., Marsh, D., Shen, S O'Hare, G.M.P. (2006) 'Agents Go Travelling: A Migration Protocol for Mobile Agents' *In Scalable Computing: Practice and Experience Electronic Journal* .

Keegan, S., O'Hare, G.M.P., O'Grady, M.J. (2006) 'EasiShop: Ambient Intelligence Assists Everyday Shopping' *Journal of Information Sciences Elsevier* .

Conference Publications

Dragone, M., Holz, T. & O'Hare, G.M.P (2007) Using Mixed Reality Agents as Social Interfaces for Robots *In Proceedings of 16th IEEE International Symposium on Robot and Human Interactive Communication 2007 (IEEE RO-MAN 2007)* , Jeju Island, Korea,

O'Hare, G.M.P., Grady, M.J., Jurdak, R., Muldoon, C., O'Connor, N.E. O'Conaire, C., Kelly, P. (2007) Engineering Ambient Visual Sensors *Proceedings of the 5th International Conference on Intelligent Multimedia and Ambient Intelligence (IMAI'07)* , Salt Lake City, Utah, 1447 - 1553

O'Hare, G.M.P., O'Grady, M.J., Muldoon, C. & Byrne, C.A. (2007) Ambient Documents: Intelligent Prediction for Ubiquitous Content Access *In Proceedings of Human Computer Interaction (HCI) International 2007* , Beijing, P.R. China,

Ruzzelli, A.G., O'Hare, G.M.P. & van der Stok, P. (2007) Energy-Efficient Multi-hop Medical Sensor Networking *Proceedings of ACM HealthNet07 1st International Workshop on Systems and Networking Support for Healthcare and Assisted Living Environments* , San Juan, Puerto Rico,

O'Grady, M.J., O'Hare, G.M.P., Hristova, N., Keegan, S. & Muldoon, C (2007) Ubiquitous Sensing: A Prerequisite for Mobile Information Services *In Proceedings of First ERCIM Workshop on eMobility, held in conjunction with 5th International Conference on Wired/Wireless Internet Communications (WWIC 2007)* , Coimbra, Portugal,

Muldoon, C., O'Hare, G.M.P., & Bradley J. (2007) Towards Reflective Mobile Agents for Resource-Constrained Mobile Devices *In Proceedings of Sixth International Joint Conference on Autonomous Agents and Multi-Agent Systems (AAMAS 2007)* , Honolulu, Hawaii, USA,

Nolan, G., Muldoon, C., O'Hare, G.M.P., O'Grady, M.J. (2007) Experimental Analysis of Collaborative Agent Tuning *Sixth International Joint Conference on Autonomous Agents and Multi-Agent Systems (AAMAS 2007) International Workshop on Agent-Based Ubiquitous Computing (ABUC2007)* , Honolulu, Hawaii, USA,

Tynan, R., Marsh, D. O'Kane D. and O'Hare G.M.P. (2007) Sensing Intelligence: Agents for Wireless Sensor Networks *In Proceedings of 2007 IEEE International Conference On Networking, Sensing and Control - ICNSC07, Special Session on Intelligent Wireless Sensor Networks* , London, United Kingdom,

Chen, X., O'Grady, M.J., O'Hare, G.M.P. (2007) Pervasive Mobile Multimedia *Proceedings of the 6th International Conference on Computer Information Systems and Industrial Management Applications (CISIM 2007)* , Elk, Poland,

O'Carroll, D., O'Grady, M.J., O'Hare, G.M.P. (2006) Issues in Position Determination for Mobile Learners *In Proceedings of the Fourth International Conference on Multimedia & Information and Communication Technologies in Education* , Seville, Spain,

Tynan, R., O'Hare, G.M.P. & Ruzzelli, A. (2006) Autonomic Wireless Sensor network Topology Control *In Proceedings of IEEE International Conference on Advanced Video and Signal based Surveillance, (AVSS 2006)* , Sydney, NSW, Australia,

O'Hare, G.M.P., O'Grady, M.J., Marsh, D., Ruzzelli, A & Tynan, R. (2006) Realising Autonomic Wireless Sensor

Networks through Intelligent Agents *Proceedings of IEEE Automation International Conference* , University of Rome, La Sapienza,

Doherty, B.C., O'Hare, P.T., O'Grady, M.J., O'Hare, G.M.P. (2006) Entre-pass: Personalising u-learning with Intelligent Agents *proceedings of the Fourth International Workshop on Wireless, Mobile and Ubiquitous Technologies in Education (WMUTE2006)* , Athens, Greece, 58 - 62

Muldoon, C., O'Hare, G.M.P., & O'Grady, M.J. (2006) Collaborative Agent Tuning: Performance Enhancement on Mobile Devices *In Proceedings of Sixth International Workshop Engineering Societies in the Agents' World (ESAW 2005) Kusadas#305;, Ayd#305;n, Turkey, 26th - 28th October, 2005 Lecture Notes in Computer Science (LNCS), Springer Verlag Publishers, 2006* , Kusadas#305;, Ayd#305;n, Turkey,

Ruzzelli, A.G. ,P. Cotan, O'Hare, G.M.P., Tynan, R., & Havinga P.J.M. (2006) Protocol Assessment Issues in Low Duty Cycle Sensor Networks: The Switching Energy *Proceedings of IEEE International Conference on Sensor Networks, Ubiquitous, and Trustworthy Computing (SUTC 2006)* , Taichung, Taiwan,

Liu, Y., O'Grady, M.J., O'Hare, G.M.P (2006) Scalable Context Simulation for Mobile Applications *First International Workshop on Pervasive Systems (PerSys'06)* , Montpellier, France,

Marsh, D., Tynan, R., Beirne, S., Shephard, R. O'Hare, G.M.P., Diamond, D. & Corcoran, B. (2006) Microcosm: a Low Cost 3-D Wireless Sensor Test-bed within a Controllable Environment *In Proceedings of Second International Conference on Mobile Ad Hoc and Sensor Networks (MSN 2006) to be held Hong Kong, China, 13th-15th Dec. 2006. Lecture Notes in Computer Science (LNCS) Springer-Verlag Publishers, 2006* , Hong Kong, China,

Ma, R., O'Hare, G.M.P., O'Grady, M.J. (2006) Embedded Intelligence: Enabling In-situ Power Management for Wireless Sensor Networks *Proceedings of the First European Conference on Smart Sensing and Context (EuroSSC2006), 25-27 October, 2006, Enschede, The Netherlands. Lecture Notes in Computer Science (LNCS), Springer Verlag Press, 2006* , Enschede, The Netherlands,

Chen, J., O'Grady, M.J. & O'Hare, G.M.P. (2006) Autonomy and Intelligence ? Opportunistic Service Delivery in Mobile Computing *Proceedings of KES 2006 10th International Conference on Knowledge-Based & Intelligent Information & Engineering Systems Bournemouth International Conference Centre 9th-11th October 2006, Lecture Notes in Computer Science (LNCS), Springer Verlag Publishers, 2006* , Bournemouth International Conference Centre,

O'Hare, G.M.P, Keegan, S., O'Grady, M.J. (2006) Interaction for Intelligent Mobile Systems *Proceedings of KES 2006 10th International Conference on Knowledge-Based & Intelligent Information & Engineering Systems Bournemouth International Conference Centre 9th-11th October 2006, Lecture Notes in Computer Science (LNCS), Springer Verlag Publishers, 2006* , Bournemouth International Conference Centre,

Muldoon, C., O'Hare, G.M.P. & O'Grady, M.J. (2006) AFME: An Agent Platform for Resource Constrained Devices . In: O'Hare, G.M.P., Ricci, A., O'Grady, M.J. & Dikenelli, O eds. *In Proceedings of 7th International Workshop, Engineering Societies in the Agents World VII, ESAW 2006* , University College Dublin,

Song, S., O'Hare, G.M.P., Diamond, D., Marsh, D & Ruzzelli, A. (2006) ATOM: Atomic Topology Management of Wireless Sensor Networks *In Proceedings of IFIP Autonomic Networking Conference 2006, (AN 2006)* , Paris France,

Ruzzelli, A., O'Grady, M.J., O'Hare, G.M.P., Tynan, R. (2006) MERLIN: A synergetic integration of MAC and Routing Protocol for Distributed Sensor Networks *In: Proceedings of the third Annual IEEE Communications Society Conference on Sensor, Mesh and Ad Hoc Communications and Networks (SECON2006)* , Reston, VA, USA,

Dr John O'Sullivan

Peer Reviewed Journals

Karamisheva R., Lyness J., Myers R., O'Sullivan J. (2006) 'Sediment discharge prediction in meandering compound channels'. *Journal of Hydraulic Engineering*, 44 (5):603-613.

Karamisheva R., Lyness J., Myers R., O'Sullivan J., Cassells J. (2006) 'Sediment transport formulae for compound channel flows'. *Proceedings of the Institution of Civil Engineers, Water Management*, 159 (WM3):183-193.

Karamisheva R., Lyness J., Myers R., Cassells J., O'Sullivan J. (2006) 'Overbank flow depth prediction in alluvial compound channels'. *Proceedings of the Institution of Civil Engineers, Water Management*, 159 (WM3):195-2005.

Professor Bruce Arthur Osborne

Peer Reviewed Journals

Black, K., Bolger, T., Davis, P., Nieuwenhuis, M., Reidy, B., Saiz, G., Tobin, B. and Osborne, B. (2007) 'Inventory and eddy covariance-based estimates of annual carbon sequestration in a Sitka Spruce (*Picea sitchensis* (Bong) Carr.) forest ecosystem'. *European Journal of Forest Research*, 126 :167-178.

Professor Jim Phelan

Conference Publications

McNamara, J. et al., (2007) Evaluation of Strategies to achieve Compliance with Legal Risk Assessment Document by Farmers in Ireland *IFMA 16- Agrarian Vs Rural: Economies and Settlements* , Cork, 186 - 194

Phelan, J. et al., (2007) A Farm Safety model for Irish Farms . In: Navarro, M eds. *AIAEE 23rd Annual Conference: Internationalising with Cultural Leadership* , Polson, Montana, 292 - 303

Dr Patrick J Purcell

Conference Publications

P.J. Purcell (2007) Modelling of the flow of suspensions through semi-permeable liners *Environ* ,

Dr Declan Redmond

Book Chapters

Redmond, D. (2007) 'Beyond the pale in Dublin : asylum seekers, welfare and citizenship' In: Neill, W.J.V. and Schwedler, H (eds). *Migration and Cultural Inclusion in the European City* . London: Palgrave.

Redmond, D. and Norris, M. (2007) 'Social Housing in the Republic of Ireland' In: Whitehead, C. and Scanlon, K (eds). *Social Housing in Europe* . London: London School of Economics.

Peer Reviewed Journals

Scott, M., Redmond, D. and Russell, P. (2007) 'Active citizenship, civil society and managing spatial change in the rural-urban fringe'. *Policy and Politics*, 35 (1):163-190.

Conference Publications

Russell, P., Redmond, D., and Scott, M. (2007) Integration and Exclusion, Active Citizenship and Neighbourhood Change and Development *42nd IsoCaRP International Congress, Cities between Integration and Disintegration: Opportunities and Challenges* ,

Redmond, D. and Kernan, G. (2006) Evaluating the Affordable Housing Provision: The 1999 Scheme *Paper to the Combat Poverty Agency* ,

Dr Aisling Reynolds-Feighan

Book Chapters

A.J. Reynolds-Feighan, (2007) 'The Long Run Distributional Effects of Industry and Carrier Changes in the US Air Transport Market' In: Lee, D (eds). *Advances in Airline Economics - Volume 2: The Economics of Airline Institutions, Operations and Marketing* . Amsterdam: Elsevier Science.

Peer Reviewed Journals

A.J. Reynolds-Feighan, & P.C. McLay, (2006) 'Accessibility and Attractiveness of European Airports: A Simple Small Community Perspective'. *Journal of Air Transport Management*, 12 :313-323.

McLay, P.C. & Reynolds-Feighan, A.J. (2006) 'Competition between airport terminals: The issues facing Dublin Airport'. *Transportation Research, Part A*: 42 (2):181-203.

Conference Publications

Aisling Reynolds-Feighan and Peter McLay, (2006) Measuring the Accessibility and Attractiveness of European Airports: A Small Community Perspective *Conference of Irish Geographers* , UCD Dublin,

Dr Mark G Richardson

Book Chapters

Richardson, M. (2007) 'Degradation of concrete in cold weather conditions' In: C.L. Page and M.M. Page (eds). *Durability of concrete and cement composites* . Cambridge, England: Woodhead Publishing Limited.

Dr Paula Russell

Peer Reviewed Journals

Scott, M., Russell, P. and Redmond, D. (2007) 'Active citizenship, civil society and managing spatial change in the urban-rural fringe'. *Policy and Politics*, 35 :163-190.

Conference Publications

Russell, P., Redmond, D. and Scott, M (2007) Integration and Exclusion, Active Citizenship and Neighbourhood Change and Development . In: Vaggione, P. and Meroy-Enil, Z eds. *42nd IsoCaRP International Congress, Cities between*

Professor Patrick M Shannon

Books

Moore, S., Carr, P., Crehan, M., Crowley, J., Flynn, D., Morgan, P. and Shannon, P. (eds) (2006) *Keeping Students at University - The Retention Debate at Third Level*. Dublin: Intersource Group Publishing.

Peer Reviewed Journals

O'Reilly, B.M., Shannon, P.M. & Readman, P.W. (2007) 'Shelf to slope sedimentation processes and the impact of Plio-Pleistocene glaciations in the northeast Atlantic, west of Ireland'. *Marine Geology*, 238 :21-44.

Huvenne, VAI; Bailey, WR; Shannon, PM; Naeth, J; di Primio, R; Henriot, JP; Horsfield, B; de Haas, H; Wheeler, A; Roy, KOL; (2007) 'The Magellan mound province in the Porcupine Basin'. *International Journal of Earth Sciences (Geol. Rundsch.)*, 96 (1):85-101.

Shannon, P.M., McDonnell, A. & Bailey, W.R. (2007) 'The evolution of the Porcupine and Rockall basins, offshore Ireland: the geological template for carbonate mound development'. *International Journal of Earth Sciences (Geol. Rundsch.)*, 96 :21-35.

O'Reilly, B.M., Hauser, F., Ravaut, C., Shannon, P.M. & Readman, P.W. (2006) 'Crustal thinning, mantle exhumation and serpentinisation in the Porcupine Basin, offshore Ireland: Evidence from wide-angle seismics'. *Journal of the Geological Society of London*, 163 :775-787.

Published Reports

Styles, P., Bjarlykke, A., de Leeuw, J., Liqi, M., Montagner, J-P. and Shannon, P. (2007) *ECORD Mid-Term Review: A Review of the Science, Management and Value for Money of the European Consortium for Ocean Research Drilling* . ECORD, Paris.

Dr David Timoney

Other Journals

Finn, D.P., Timoney, D., Kelehan, R. and Brophy, B (2006) 'Indirect Multi-Temperature Refrigeration Systems' *Revue Generale du Froid*, 1069 :38-45.

Conference Publications

Smyth, S, Brophy, B., Finn, D.P., Timoney, D.J (2007) Performance Evaluation of Secondary Loop Systems for Multi-Temperature Transport Refrigeration *Int. Institute of Refrigeration, 22nd World Congress* , Beijing, China,

Gaffney, B, Brophy, B., Finn, D.P., Timoney, D.J (2007) Mathematical Modeling of Multi-Temperature Indirect Refrigeration Systems . *Institute of Refrigeration, 22nd World Congress* , Beijing, China,

Dr Brendan Williams

Peer Reviewed Journals

Williams, B. (2006) 'Fiscal incentives and urban regeneration in Dublin 1986-2005'. *Journal of Property Investment and Finance* .

Published Reports

Williams, B., Hughes and Shiels (2007) *Urban Sprawl and Market Fragmentation* . Society of Chartered Surveyors, Dublin.

Dr Yaqian Zhao

Peer Reviewed Journals

Babatunde, AO; Zhao, YQ; (2007) 'Constructive approaches toward water treatment works sludge management: An international review of beneficial reuses'. *CRITICAL REVIEWS IN ENVIRONMENTAL SCIENCE AND TECHNOLOGY*, 37 (2):129-164.

Sun, G; Zhao, YQ, Allen, S; (2007) 'An alternative arrangement of gravel media in tidal flow reed beds treating pig farm wastewater'. *Water, Air and Soil Pollution*, 182 (1-4):13-19.

Razali, M; Zhao, YQ; Bruen, M; (2007) 'Effectiveness of a drinking-water treatment sludge in removing different phosphorus species from aqueous solution'. *Separation and Purification Technology*, 55 (3):300-306.

Zhao, YQ; Razali, M; Babatunde, AO; Yang, Y; Bruen, M; (2007) 'Reuse of Aluminium-based water treatment sludge to immobilize a wide range of phosphorus contamination: Equilibrium study with different isotherm models'. *Separation Science and Technology*, 42 (12):2705-2721.

Babatunde, AO; Zhao, YQ; (2007) 'A novel alum-sludge based Constructed Wetland system to reduce pollution effects of agricultural runoff: first results'. *International Journal of Water*, 3 (3):207-213.

Ma, W; Zhao, YQ; Kearney, P; (2007) 'A study of dual polymer conditioning of aluminum-based drinking water treatment residual'. *Journal of Environmental Science and Health*, 42 (7):961-968.

Fu, Jianfeng; Zhao, Yaqian; Wu, Qiuli; (2007) 'Optimising photoelectrocatalytic oxidation of fulvic acid using response surface methodology'. *Journal of Hazardous Materials*, 144 (1-2):499-505.

Ma, Wei; Zhao, Yaqian; Wang, Lu; (2007) 'The pretreatment with enhanced coagulation and a UF membrane for seawater desalination with reverse osmosis'. *Desalination*, 203 (1-3):256-259.

Conference Publications

Yang, Y; Zhao, YQ; Babatunde, AO; Kearney, P; (2007) Co-conditioning of digested excess activated sludge with alum sludge: Benefit of phosphorus reduction in reject water *Proceedings (CD-Rom) of Nutrient Removal 2007: The State of the Art* , Baltimore, Maryland, USA,

Babatunde, AO; Zhao, YQ; Yang, Y; Kearney, P; (2007) From 'fills' to filter: Insights into the reuse of dewatered alum sludge as a filter media in a constructed wetland *Proceedings of IWA Specialist Conference Facing Sludge Diversities: Challenges, Risks and Opportunities* , Antalya, Turkey, 575 - 582

Babatunde, AO; Zhao, YQ; O'Neill, M; O'Sullivan, B; (2007) An overview of the application of constructed wetlands for wastewater treatment in Ireland *Abstract book of the 3rd International Conference on Environmental Science and Technology* , Houston, Texas, USA, 62

Zhao, YQ; Babatunde, AO; (2006) Reuse of water treatment sludge as an adsorbent for phosphorus immobilization *Proceedings of IWA Specialized Conference?Sustainable Sludge Management: State of the art, challenges and perspectives* , Moscow, Russia, 626 - 633

Zhao, YQ; Babatunde, AO; Razali, M ; Harty, F; (2006) Integrating wastes into treatment processes: Can dewatered alum sludge be used as a substrate in reed bed treatment systems? *Proceedings of 10th IWA International Conference on Wetland Systems for Water Pollution Control* , Portugal, 1395 - 1404

Babatunde, AO; Zhao, YQ; Yang, Y; Harty, F; (2006) Investigation of the application of dewatered alum sludge as a medium in reed beds for animal farm wastewater treatment *Proceedings of 7th international Symposium on Waste Management Problems in Agro-industries* , Amsterdam RAI, The Netherlands, 199 - 204

Zhao, Y.Q., Razali, M., Babatunde, A.O., Yang, Y and Bruen, M. (2006) A multi-pronged approach to using dewatered alum sludge to immobilize a wide range of phosphorus contamination *Oral presentation at 5th IWA World Water Congress* , Beijing, China,

Ma, Wei; Zhao, Yaqian; Wang, Lu; (2006) The pretreatment with enhanced coagulation and a UF membrane for seawater desalination with reverse osmosis *Proceedings of EUROMED 2006, Desalination Strategies in South Mediterranean Countries* , Montpellier, France,

Razali, M., Zhao, Y.Q. and Bruen, M. (2006) Evaluation of phosphorus removal using dewatered alum sludge as adsorbent *Irish Environmental Researchers Conference* , Dublin, Ireland,

Babatunde, A.O., Yang, Y. and Zhao, Y.Q (2006) Targeting eutrophication in the environment: Are existing wetland substrates not removing phosphorus? *Irish Environmental Researchers Conference* , Dublin, Ireland,

Yang, Y., Zhao, Y.Q., Babatunde, A.O., Wang, L., Ren, Y.X. and Han, Y (2006) The use of alum sludge in the control of phosphate released from excess sludge during the biological phosphorus removal (BPR) process *Irish Environmental Researchers Conference* , Dublin, Ireland,