



Water Studies Centre

Publications 2000-07

1.1 Book Chapters (DEST B1)

1. Beckett, R. (2000). 'Overview of Environmental Applications', in "Handbook of Field-Flow Fractionation", Ed. Schimpf, Caldwell and Giddings, John Wiley, p 489-496.
2. Beckett, R., M. E. Schimpf, (2000). 'Characterization of Humic Substances', in "Handbook of Field-Flow Fractionation", Ed. Schimpf, Caldwell and Giddings, John Wiley, p 497-506.
3. McKelvie, I.D. (2000). 'Phosphates', in "Handbook of Water Analysis", Ed. Nollet, L.M.L., Marcel Dekker Inc, New York, Basel, p 273-295.
4. Murphy, D., & Beckett, R. (2000). 'Investigation of Pollutant-Particle Association', in "Handbook of Field-Flow Fractionation", Ed. Schimpf, Caldwell and Giddings, John Wiley, p 525-536.
5. Ranville, J., R. Beckett, (2000). 'Aquatic Colloids, Substances', in "Handbook of Field-Flow Fractionation", Ed. Schimpf, Caldwell and Giddings, John Wiley, p 507-524.
6. Sharma, R., & Beckett, R. (2000). 'Biological Particles of Environmental Interest', in "Handbook of Field-Flow Fractionation", Ed. Schimpf, Caldwell and Giddings, John Wiley, p 537-560.
7. Beckett, R., Chen, B., and Tri, N. (2001). 'Pollutant-Colloid Association by Field-Flow Fractionation', in "Encyclopedia of Chromatography", Marcel Dekker, p 629-632.
8. Tri, N., and Beckett, R. (2001). 'Adsorption Studies by Field-Flow Fractionation', in "Encyclopedia of Chromatography", Marcel Dekker, p 10-12.
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10. Hart, B. T. (2002). 'Water quality guidelines', in Burden, F. R., Forstner, U., Guenther, A. and McKelvie, I. D. (ed.), "Handbook of Environmental Monitoring", McGraw Hill, New York, p1.3-1.26.
11. McKelvie, I.D. (2002). 'In-situ measurement of physico-chemical water quality parameters' in Burden, F. R., Forstner, U., Guenther, A. and McKelvie, I. D. (ed.), "Handbook of Environmental Monitoring", McGraw Hill, New York, pp 3.1-3.21.
12. McKelvie, I.D. (2002). 'Inorganic Nonmetallic Substances' in Burden, F. R., Forstner, U., Guenther, A. and McKelvie, I. D. (ed.), "Handbook of Environmental Monitoring", McGraw Hill, New York, pp 10.1-10.20.
13. Oliver, R.L., M.R. Grace, J. Olley, and B. Cooper (2004). 'Chapter 13. Water Quality', in "The Darling", R. Breckwoldt, R. Boden, and J. Andrew, Editors. Murray-Darling Basin Commission: Canberra.
14. McKelvie, I.D. (2005). 'Separation, preconcentration and speciation techniques for organic phosphorus in environmental samples' in "Organic Phosphorus in the Environment", Eds. Turner, B.L., Frossard, E., and Baldwin, D.) pp 432. CAB International, Wallingford, UK.

15. McKelvie, I.D., and Lyddy-Meaney, A.J. (2005). 'Phosphorus' in "Encyclopedia of Analytical Science", Eds. Worsfold, P.J., Townshend, A., and Poole, C., pp 167-173. Elsevier Science.
16. McKelvie, I.D. (2006). 'Inositol phosphates in aquatic systems' in "Inositol Phosphates: Linking Agriculture and the Environment", Eds. Turner, B.L., Richardson, A. & Mullaney, E., CAB International, Wallingford, UK.
17. Fellows, C., Hunter, H. and Grace, M. "Managing diffuse nitrogen loads: in-stream and riparian zone nitrate removal", (2007). Chapter 4 in "Salt, Nutrient, Sediment and Interactions: Findings from the National River Contaminants Program." S. Lovett, P. Price and B. Edgar (eds). Land & Water Australia, Canberra, p 43-58. ISBN 978-1-921253-68-3
18. Hart, B., Pollino, C., White, A., Grace, M., Burgman, M., Fox, D., Carey, J., Chee, Y., Henderson B. and Bui, E. "Risk-based approaches for managing contaminants in catchments", (2007). Chapter 10 in "Salt, Nutrient, Sediment and Interactions: Findings from the National River Contaminants Program." S. Lovett, P. Price and B. Edgar (eds). Land & Water Australia, Canberra, p 127-140. ISBN 978-1-921253-68-3
19. Hassellöv, M., von der Kammer, F., and Beckett, R. (2007) "Characterisation of Aquatic Colloids and Macromolecules by Field-Flow Fractionation" Chapter 5 in "Environmental Colloids and Particles"; IUPAC Series on Analytical and Physical Chemistry of Environmental Systems. K.J. Wilkinson and J.R. Lead (eds). Wiley Interscience, p 223-276. ISBN on-line 9780470024539, ISBN print 9780470024324.
20. McKelvie ID (2007) Inositol phosphates in aquatic systems. In 'Inositol Phosphates: Linking Agriculture and the Environment '. (Ed. BL Turner, Richardson, A., Mullaney, E.) pp. 261-278. (CAB International: Wallingford, UK.)
21. Monbet, P., and McKelvie, I.D. (2007). "Phosphates". In 'Handbook of Water Analysis' (Eds. Nollet, L.M.L.) 219-252. (CRC Press, New York, Basel)

1.2 Papers in Refereed Journals (DEST C1)

1. Fan, S.H., Hart, B.T. & McKelvie, I.D. (2000). "Determination of trace amounts of hydrogen peroxide in natural waters by flow injection with luminol chemiluminescence", *Laboratory Robotics & Automation* 12(3): 149-156.
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3. Ran, Y., Fu, J.M., Sheng, G.Y., Beckett, R. & Hart, B.T. (2000). "Fractionation and composition of colloidal and suspended particulate materials in rivers". *Chemosphere* 41(1-2): 33-43.
4. Walsh, C.J. (2000). "Urban impacts on the ecology of receiving waters: a framework for assessment, conservation and restoration". *Hydrobiologia* 431(2): 107-114.
5. Halliwell, D.J., McKelvie, I.D., Hart, B.T. & Dunhill, R.H. (2001). "Hydrolysis of triphosphate from detergents in a rural wastewater system", *Water Research* 35: 448-454.
6. Davis, J.A., Finlayson, B. & Hart, B.T. (2001). "Barriers to science informing community-based land and water management", *Aust. J. Environmental Management*, 8(2): 99-104.
7. Hart, B.T., Davies P., Humphrey, C., Norris, R., Sudaryanti, S. & Trihadiningrum, Y. (2001). "Application of the Australian River Bioassessment Method (AUSRIVAS) in the Brantas River, East Java, Indonesia", *J. Environ. Management* 62: 93-100.
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9. Chantiwas, R., Beckett, R., Jakmunee, J., McKelvie, I.D., and Grudpan, K. (2001). "Combination of Field-Flow Fractionation and Flow Injection Analysis". *Analytical Sciences* 17: 423.
10. Lovell, B., McKelvie, I.D., and Nash, D. (2001). "Sampling design for total and filterable reactive phosphorus monitoring in a lowland stream: considerations of spatial variability, measurement uncertainty and statistical power". *J. Environmental Monitoring* 3: 463-468.
11. Sonneman, J.A., Walsh, C.J., Breen, P.F. and Sharpe, A.K. (2001). "Effects of urbanization on streams of the Melbourne region, Victoria, Australia. II. Benthic diatom communities". *Freshwater Biology* 46: 553-565.
12. Walsh, C. J. and Breen, P. F. (2001). "A biological approach to assessing the potential success of habitat restoration in urban streams". *Verhandlungen Internationale Vereinigung fur Theoretische und Angewandte Limnologie* 27: 3654-3658.
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14. Khoshmanesh A., R. Sharma, R. Beckett (2001). "Biomass of Sediment Bacteria by Sedimentation Field-Flow Fractionation". *Journal of Environmental Engineering*, 127(1): 19-25.
15. Leonard A.W., R. V. Hyne, R. P. Lim, K. A. Leigh, J. Le, R. Beckett (2001), "Fate and Toxicity of Endosulfan in Namoi River Water and Bottom Sediment". *Journal of Environmental Quality*, Volume 30: 750-759.

16. Chen, B., R. Beckett (2001), "Development of SdFFF-ETAAS for characterising soil and sediment colloids". *Analyst* 126: 1588-1593.
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18. Chen B., C. A. Shand, R. Beckett (2001), "Determination of total and EDTA extractable metal distributions in the colloidal fraction of contaminated soils using SdFFF-ICP-HRMS". *J. Environ. Monit.* 3: 7-14.
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23. Turner, B.L., and McKelvie, I.D. (2002). "Preliminary Investigation of a Novel Technique for the Pre-concentration and Extraction of Inositol Hexakisphosphate from Soil Extracts with Determination by ³¹P Nuclear Magnetic Resonance". *J. Env. Quality* 31: 466 – 470.
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4. McWilliam, E., Hart, B. T. and Waters, M. (2001). 'An Ecological Risk Assessment of a Trial Application of Active Barrier Materials to Control Sediment Nutrient Release', *in* Rutherford, I. Sheldon, F., Brierley, G. and Kenyon, C. (eds.) "Proceedings of the Third Australian Stream Management Conference", Brisbane Qld. Vol. 2. CRC for Catchment Hydrology, Melbourne, p 435-440.
5. Watts, K., Hart, B. T. and Grace, M. R. (2001). 'Biogeochemistry of a Sand Slug Stream', *in* Rutherford, I. Sheldon, F., Brierley, G. and Kenyon, C. (eds.) "Proceedings of the Third Australian Stream Management Conference", Brisbane Qld. Vol. 2. CRC for Catchment Hydrology, Melbourne, p 639-645.
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7. Thomas, C., B. Hart, A. Nicholson, M. Grace, J. Brodie & C. Pollino (2005). 'Development Of Criteria For Simplifying Ecological Risk Models' *in* "MODSIM 2005 International Congress on Modelling and Simulation", ed. A. Zerger and R. Argent, University of Melbourne, Modelling and Simulation Society of Australia and New Zealand, p 772-778.
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1.4 Editorial Roles for Specialist Journal Editions & Publications

1. Hart, B.T. & Grace, M.R. (Eds.) (2001). *Nitrogen Workshop 2000: Sources, transformations, effects and management of nitrogen in freshwater ecosystems*, Land & Water Australia, Occasional Paper 10/10, Canberra, pp133.
2. McKelvie, I., Barnett, N., and Worsfold, P.J.E. (Eds.) (2003). Papers presented at the 9th International Conference on Flow Analysis, Geelong, Australia, 10-14 February. *Analytica Chimica Acta* 499: 1-235.
3. Cottingham P., Walsh C., Rooney G. & Fletcher T. (Eds.) (2004). *Urbanization impacts on stream ecology - from syndrome to cure?* Outcomes of workshops held at the Symposium on Urbanization and Stream Ecology. Melbourne University, Melbourne, Australia 8th - 10th December 2003.' Cooperative Research Centre for Freshwater Ecology: Canberra, Australia.
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1.5 Technical Reports

1. Hart, B.T & Cottingham, P. (2000). *Nutrient loads from the Macalister irrigation district*. Specialist workshop held at Monash University on 14 April, 2000, Tech. Report 5/2000, CRC for Freshwater Ecology, Melbourne.
2. Breen, P., Walsh, C., Nichols, S., Norris, R., Metzeling, L. & Gooderham, J. (2000). *Urban AUSRIVAS: An Evaluation of the Use of AUSRIVAS Models for Urban Stream Assessment*. Land and Water Resources Research and Development Corporation, Occasional Paper 12/99. National River Health Program, Urban Sub Program Report No. 5. LWRRDC, Canberra. 33 pp.
3. Gippel, C.J. and Walsh, C.J. (2000). *Geomorphology of the Maribyrnong River, Victoria*. Report prepared by Fluvial Systems Pty Ltd for Melbourne Water Waterways and Drainage Group, East Richmond, Vic. pp 67.
4. Grace, M.R. & McKelvie, I.D. (2000) *Fate of Treated Effluent from the Mt Buller Alpine Resort*. Phase 3 Annual Report 1999-2000, pp 41.
5. Cottingham, P., Beckett, R., Breen, P., Feehan, P., Grace, M. and Hart, B. T. (2001). *Assessment of Ecological Risk Associated with Irrigation Systems in the Goulburn Broken Catchment*, Technical Report No. 3/2001, CRC for Freshwater Ecology, Monash University, Melbourne, pp 29.
6. Cottingham, P., Barton, J., Finlayson, B. F., Hart, B. T., Quinn, J. M., Raadik, T. and Stewardson, M. J. (2001). *Development of a Rehabilitation Plan for the lower Thomson and Macalister Rivers - A Scoping Study*, Dept Natural Resources & Environment and West Gippsland Catchment Management Authority, CRC for Freshwater Ecology, Melbourne, pp 160.
7. Webster, I. T. and Grace, M. R. (2001). *Isotherm Analysis of Sediment Samples and Water Column Samples Collected in the Gippsland Lakes. 2000 - 2001*, Report for the Gippsland Coastal Board as part of the CSIRO Gippsland Lakes Environmental Study, Water Studies Centre, Monash University & CSIRO Land & Water, pp 15.
8. Hart, B.T., Jones, M.J. and Pistone, G. (2001). *Transboundary water quality issues in the Mekong River basin*, Report for Mekong River Commission, Water Studies Centre & NSR Environmental Consultants, November 2001, pp 70.
9. McKelvie, I.D. & Grace, M.R. (2001) *Fate and Ecological Impact of Treated Sewage Effluent from the Mt Buller Alpine Resort*, Phase 4 Annual Report 2000-01, pp 41.
10. Richardson, D., Hart, B.T., Jones, M., Nixon, C. & Kearney, P. (2001). *Ecological risk assessment – A new approach to effluent management in the pulp and paper industry* in “55th APPITA Conference Proceedings”, Hobart, Tasmania. May 2001, p 551-558.
11. Richardson, D., Parsons, T., Moore, N., Grace, M. & Liang, A. (2001). *The fate of resin acid in effluent from a newsprint mill* in “55th APPITA Conference Proceedings”, Hobart, Tasmania. May 2001, pp 131-138.
12. Grace, M. R. and Liang, A. P. (2001). *Aspects of the fate of Boyer Mill Resin Acids in the Derwent River*, Report for Norske Skog Paper Mills Australia, Water Studies Centre, Monash University, pp 40.
13. Grace, M. R. and Liang, A. P. (2001). *Phosphorus Partitioning Studies*, Report for Norske Skog Paper Mills Australia, Water Studies Centre, Monash University, pp 18.

14. Walsh, C.J., Tsyrlin, E., Grace, M.R. and Sonneman, J.A. (2002). *An ecological assessment of the impact of treated effluent from Mount Hotham Alpine Resort on the Dargo River and an initial assessment of Swindlers Creek*. A report prepared for Environmental Solutions International Ltd (ESI), on behalf of the Mt Hotham Alpine Resort Management Board. pp. 65.
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17. Walsh, C.J. and McCasker, N. (2002). *Melbourne Water Macroinvertebrate Database 1994-2002. A report on its compilation, with recommendations for its use and for future biological monitoring*. Report for Melbourne Water. Cooperative Research Centre for Freshwater Ecology, Monash University.
18. Hart, B.T. & Roberts, S. (2002). *Active barriers to reduce nutrient release from sediments: Effectiveness and ecological risks*, WSC Alliance Report No 1, Water Studies Centre, Monash University, Melbourne, Australia, pp 20.
19. Hart, B.T., Roberts, S., James, R., O'Donohue, M. Taylor, J., Donnert, D. & Furrer, R. (2002). *Effectiveness of calcite barriers in preventing phosphorus release from sediments*, WSC Alliance Report No 2, Water Studies Centre, Monash University, Melbourne, Australia, pp38.
20. Hart, B.T., Grace, M., McWilliam, E. & Waters, M. (2002). *Is preventing nutrient release from sediments desirable? Risk assessment protocol for assessing the ecological effects of active barriers to prevent phosphorus release from sediments*, WSC Alliance Report No 3, Water Studies Centre, Monash University, Melbourne, Australia, pp17.
21. Hart, B.T., Grace, M., Webb, J.A. & Tri, N. (2002). *Environmental risks from salinity increases in the Goulburn-Broken catchment*, Report to Goulburn-Broken Catchment Management Authority, Water Studies Centre, Monash University, Melbourne, July, pp 26.
22. Walsh C. and Mac Nally, R. (2003) "The hier.part Package" Hierarchical Partitioning. Documentation for R: A language and environment for statistical computing. R Foundation for Statistical Computing, Vienna, Austria. URL <http://www.R-project.org>.
23. Webb J.A. & Hart B.T. (2003) *Review: Salt Impact Model: Strategic Framework and Information to Indicate Biodiversity Thresholds to Salinity*, Water Studies Centre, Monash University.
24. Feehan P., Pollino C. A., Webb J. A., Chan T., Grace M. R., Hart B. T. and Woodberry O. (2003). *GMW11 - Ecological Risk Associated with Irrigation in the Goulburn-Broken - Stage 2*, Final Report for Land & Water Australia, pp 238, December.
25. McKelvie I.D & Grace M.R. (2003). *The Impact and Fate of Secondary Treated Sewage from Mt Buller-Phase 6*, Water Studies Centre, Monash University, pp 39.
26. Chan, T.U., M.R. Grace, R. Potter, D. Tiller, D. Robinson, A-M. Westbury and C.A. Pollino (2004). *Development of Guidelines for Suspended Sediment and Suspended Particulate Matter in Rivers and Streams*. Report for the Victorian Environmental Protection Authority, June, pp 45.
27. Grace, M.R. and D. Holland (2004). *Greenvale Reservoir Benthic Nutrient Study*. Report for Melbourne Water Corporation, June, pp 15.
28. Grace, M.R., D. Holland, T. Chan, and S.R. Roberts (2004). *Lower Darling River Algal Growth Study*. Report for the Murray-Darling Basin Commission, June, pp 45.

29. Walsh C. J. (2004). *Impacts of stormwater treatment wetlands on stream macroinvertebrates: a study of four wetlands constructed by Melbourne Water on streams in eastern Melbourne*. Report for Melbourne Water Corporation.
30. Walsh C. J., Leonard A. W., Ladson A. R. & Fletcher T. D. (2004). *Urban Stormwater and the Ecology of Streams*. CRC for Freshwater Ecology and CRC for Catchment Hydrology, Technical Report (Canberra). ISBN 0-9751642-03
31. Walsh C. J., Leonard A. W., Ladson A. R., and Fletcher T. D. (2004). *Urban Stormwater and the Environment*. CRC for Freshwater Ecology and CRC for Catchment Hydrology, Report to the New South Wales Environment Protection Authority.
32. Walsh, C. J., Fletcher T. D., Ladson A. R., Leonard A. W. (2004). *Decision-support framework for urban stormwater management to protect the ecological health of receiving waters*. CRC for Freshwater Ecology and CRC for Catchment Hydrology, Report to the New South Wales Environment Protection Authority.
33. Webb, J.A., M.R. Grace, C.A. Pollino, and S.J. Imberger (2004). *Review of Water Quality Monitoring Programs in the Goulburn-Broken Catchment*. Report for the Goulburn-Broken Catchment Management Authority, April, pp 78.
34. Grace, M. R. and I. D. McKelvie (2005). *The Impact and Fate of Secondary Treated Sewage from Mt Buller - Phase 7*, Water Studies Centre, Monash University, pp 48.
35. Hart, B., M. Burgman, A. Webb, G. Allison, M. Chapman, L. Duivenvoorden, P. Feehan, M. Grace, M. Lund, C. Pollino, J. Carey & A. McCrea (2005). *Ecological Risk Management Framework for the Irrigation Industry.*, Water Studies Centre, Monash University, pp 54.
36. Roberts, S., B. Hart, M. Grace & I. Rutherford (2005). *Relative Importance of Sources of Nutrients and Sediments in the Upper Torrens Catchment, South Australia.*, Water Studies Centre & Water Science Pty Ltd, pp 55.
37. Webb, J. A., N. R. Bond, M. R. Grace, R. Mac Nally, G. P. Quinn, S. R. Wealands, P. Vesk & D. Spring (2005). *Rivers in landscapes: heuristic models linking ecological responses and large-scale drivers*. Final Report on Project B260, CRC for Freshwater Ecology, pp 62.
38. Cottingham, P., Stewardson, M. & Webb, A. (2005). *Victorian Environmental Flows Monitoring and Assessment Program. Stage 1: Statewide Framework*. Report for Melbourne Water Corporation, Melbourne.
39. Hart, B., Webb, A., Laycock, B. (2005). *Porgera Riverine Monitoring Review: Water Quality Review*, Water Sciences, Melbourne.
40. King, E.L & Webb, J.A. (2005). *Westernport Catchment Water Quality Trend Analysis*. Water Studies Centre, Monash University, Melbourne.
41. McKelvie, I.D., Ellis, P.S. & Gray, S.M. (2005). *Report on the application of compact flow injection equipment for underway chemical monitoring, l'Astrolabe, Feb-Mar 2005*. Water Studies Centre, Monash University. 11 pp, 27 May.
42. Lloyd, S. (2005). *Stream restoration through the application of Water Sensitive Urban Design: Little Stringybark Creek Catchment project*. Water Studies Centre.
43. Fellows C.S., Conway C., Markwell K., Beard N., Lutton V., Hinshaw S., Henderson C., Bunn S., Grace M.R., Holland D., Imberger S.J., Davies P. M. & Russell C. (2006). *In-stream and riparian zone nitrogen dynamics, GRU28: Final Report to Land & Water Australia, Griffith University, May, pp 10*.

44. Grace, M. R. and S. J. Imberger (2006). *Stream Metabolism: Performing & Interpreting Measurements*, Water Studies Centre, Monash University, Report for the Murray-Darling Basin Commission, pp 193.
45. Hart, B., C. Pollino, T. Chan, M. Grace, N. Mautner, C. Cocklin, T. Walshe, M. Burgman, R. Beilin, D. Fox, A.-M. Westbury, D. Tiller and C. Putt (2006). *Delivering Sustainability through Risk Management*, NPSI Project UMO45 Final Summary Report to the National Program for Sustainable Irrigation (NPSI) by the Water Studies Centre, Monash University, pp 26.
46. Hart, B., C. Pollino, A. White, M. Grace, M. Burgman, D. Fox, J. Carey, Y. Chee, B. Henderson and E. Bui (2006). *Risk-based Approaches for Managing Contaminants in Catchments*, LWA/MDBC Project UMO43 Final Summary Report. Water Studies Centre, Monash University, pp 18.
47. McKelvie, I. D. and M. R. Grace (2006). *The Impact and Fate of Secondary Treated Sewage from Mt Buller - Phase 8*, Water Studies Centre, Monash University, Report for the Mt Buller and Mt Stirling Resort Management Board, pp 48.
48. McKelvie, I., and Ellis, P. (2006). *Determination of ammonia and total alkalinity by gas-diffusion flow analysis*. Commercial-in-confidence report to Ecotech Pty Ltd, Water Studies Centre, Monash University, April, pp 12.
49. Roberts, S., M. Grace, P. Lind, J. Sherwood and D. Nash (2006). *Improving our knowledge of the fate of nutrients in the Wimmera River: 1 Weir Pools Sediment Nutrient Inventory*, Water Studies Centre, Monash University; Deakin University; Department of Primary Industries, Ellinbank, Report for the Wimmera Catchment Management Authority, pp 18.
50. Roberts, S., M. Grace, J. Sherwood, P. Lind and D. Nash (2006). *The role of the common reed, Phragmites australis on nutrient cycling in aquatic systems*. Water Studies Centre, Monash University; Deakin University; Department of Primary Industries, Ellinbank, Report for the Wimmera Catchment Management Authority, pp 20.
51. Walsh, C. J., Kunapo, J., Padgham, M., and Coleman, R. (2006). *Urban stormwater drainage a stronger determinant of faecal contamination in Melbourne's streams than septic tank leakage*. An interim report to Melbourne Water. Water Studies Centre, Monash University.
52. Walsh, C.J. (2006). *Refining biological assessment of stream condition in the Murray-Darling basin using macroinvertebrates. Progress to 22 March 2006*. Progress report to the Sustainable Rivers Audit, Murray Darling Basin Commission, Canberra.
53. Walsh, C.J. (2006). *Developing a landscape filters model for river macroinvertebrates of south-eastern Australia*. Final report to the Sustainable Rivers Audit, Murray Darling Basin Commission, Canberra.
54. Dambacher J. M., Shenton W., Hayes K. R., Hart B. and Barry S. "Qualitative modelling and Bayesian network analysis for risk-based biosecurity decision making in complex systems" (2007). Report for the Australian Centre of Excellence for Risk Analysis, pp55, September 2007, ACERA project 06/01,
55. Grace, M.R. and McKelvie, I.D. "The Impact and Fate of Secondary Treated Sewage from Mt Buller - Phase 9."(2007). Water Studies Centre, Monash University, Report for the Mt Buller and Mt Stirling Resort Management Board, pp 60, April, 2007.
56. Roberts, S., Grace, M., Lind, P., Sherwood, J. and Nash, D. "Identifying key in-stream sources of phosphorus and nitrogen in the Wimmera River" (2007). Water Studies Centre, Monash University; Deakin University; Department of Primary Industries, Ellinbank. Report for the Wimmera Catchment Management Authority, pp 41, March, 2007

57. Roberts, S., Grace, M. and Boon, P. "The Nagambie Lakes system: review of existing water and sediment quality data and an analysis of its relationships to past ecological events."(2007). Water Studies Centre, Monash University and Dodo Environmental. Report for the Victorian Dept of Sustainability and Environment, and Goulburn-Murray Water, pp 38, June, 2007.
58. Shenton, W., Hart, B.T., Brodie, J. "Development of a Bayesian Network Model for Linking Management Actions, Nutrient Targets and Ecosystem Condition in the Tully Catchment, North Queensland". Project UMO43 Land & Water Australia, Final Report. 2007.

1.6 Oral Presentations

Conference & Workshop Presentations

2000

1. Hart, B.T. (2000). Future Challenges in Australian Freshwater Science, Australian Society for Limnology & Australian Marine Science Association, Combined Symposium, Melbourne, 3 May.
2. Lovell, B., McKelvie, Hart, B.T. & Nash, D. (2000). Sewage sourced nutrient spiralling in an agricultural stream, ASLO Conference, Copenhagen, June.
3. Batley, G., Simpson, S., Donnert, D., Jakob, T., Förstner, U., Jacobs, P., Hart, B.T., Beckett, R., O'Donohue, M., Nießner, R., Gahr, A., Stottmeister, U., Weißbrot, E., Waite, D. & Lavitt, N. (2000). The use of active barrier systems (ABS) for sub-aqueous in-situ capping (ISC) of contaminated sediments: an Australia-Germany collaborative research program, Consoil 2000, Germany, July.
4. Hart, B.T. (2000). Ecological risks from timber plantations & farm forestry activities, presented at National Workshop on Plantations, Farm Forestry and Water, Melbourne, 20, 21 July.
5. Hart, B.T. (2000). Assessing the health of our rivers & estuaries, Brisbane River Festival 2000, Brisbane, September.
6. Breen, P., Walsh, C., Grace, M. Bourgues, S. & Hart, B.T. (2000). Spatial patterns in ecosystem structure and function in the Yarra River, Victoria, Brisbane River Festival 2000, Brisbane, September.
7. Hart, B.T. (2000). Integrated catchment management: Means to deliver good water quality and healthy rivers, International Seminar on Industrial Waste Pollution Control: Quo Vadis Surabaya River, Surabaya, Indonesia, 21-22 November.
8. Coysh, J., Linke, S., Norris, R. and Walsh, C. (2000). Dirty water models: predicting biological change in streams using simulated impacts. Oral Presentation, ASL 39th Congress, Darwin, July
9. Amini, N., and McKelvie, I.D. (2000). Determination of phospholipids by enzymatic flow injection analysis. R & D Topics -RACI Analytical Division. 18. Analytical Division, RACI, Charles Sturt University, Wagga Wagga. 3-6 Dec 2000
10. Gray, S., and McKelvie, I.D. (2000). Determination of total dissolved nitrogen by photooxidative flow injection analysis. R & D Topics - RACI Analytical Division. Charles Sturt University, Wagga Wagga. 3-6 Dec 2000
11. Lovell, B., McKelvie, I.D., Hart, B.T., and Nash, D. (2000) Sewage sourced nutrient spiralling in an agricultural stream, ASLO Conference, Copenhagen.
12. Lyddy-Meaney, A., and McKelvie, I.D. (2000). Flow Injection Analysis for Mapping Nutrient Transport Processes in Estuarine Environments. R & D Topics -RACI Analytical Division. Charles Sturt University, Wagga Wagga. 3-6 Dec.
13. McKelvie, I.D., Lyddy-Meaney, A., Lovell, B., and Ellis, P. (2000). Portable multi-parameter flow-injection systems for environmental monitoring: Wishful thinking or practical reality? Flow Analysis VIII, Warsaw, Poland. 24 September.

14. Turner, B.L., and McKelvie, I.D. (2000). A Novel Technique for the Pre-concentration and Extraction of Inositol Hexakisphosphate from Soil Extracts with Measurement by ^{31}P Nuclear Magnetic Resonance. 2nd European Symposium - NMR in Soil Science. Technische Universität München. 27 Feb - 1 Mar.

2001

1. Tri, N. and Beckett, R. (2001). The Use of Acoustic Forces in Thin Channel Separations, invited talk at 27th Congress on Science and Technology of Thailand, Songkla, Thailand, October .
2. Chantiwas, R., Jakmunee, J., Beckett, R. and Grudpan, K. (2001). Performance Testing of Asymmetric Flow Field-Flow Fractionation, 27th Congress on Science and Technology of Thailand, Songkla, Thailand, October.
3. Crossan, A. N., Lee, N., Sharma, R., Kennedy, I. R. and Beckett, R. (2001). Centrifugal SPLITT and Enzyme Linked Immuno-Sorbent Assay ELISA: A new analytical combination used to assess simulated irrigation run-off for Endosulfan and Diuron, 9th International Symposium on Field-Flow Fractionation, Colorado, U.S.A., June.
4. Assemi, S. and Beckett, R. (2001). Effect of Solution pH and Ionic Strength On Size and Diffusion Coefficient of Humic Substances, 9th International Symposium on Field-Flow Fractionation, Colorado, U.S.A., June.
5. Tri, N. and Beckett, R. (2001). The Use of Acoustic Forces in Thin Channel Separations, invited talk at 9th International Symposium on Field-Flow Fractionation, Colorado, U.S.A., June.
6. Tadjiki, S., Baborowski, M., Kammer, F. von der and Beckett, R. (2001). Characterization of Sediment and Pore Water Particles in Anoxic and Oxidic Conditions Using AsFIFFF-ICP-MS Technique, 9th International Symposium on Field-Flow Fractionation, Colorado, U.S.A., June.
7. Hart, B.T., Grace, M.R., Breen, P., Cottingham, P., Feehan, P. and Burgman, M.A. (2001). Application of ecological risk assessment in river management. 3rd Australian Stream Management Conference, Brisbane 27-29 August.
8. Hart, B.T., Richardson, D. and Jones, M.J. (2001). Ecological Risk Assessment of a Pulp Mill Effluent Discharged to the Derwent Estuary, Tasmania, 40th ASL Conference, Moama 27-30 September.
9. Hart, B.T. (2001). Challenges in natural resource management (crystal ball gazing), NRE Nutrient Management Workshop, Shepparton, 24-25 October.
10. Hart, B.T. (2001). Transboundary water quality issues in the Mekong River system, Workshop on Transboundary Issues in the Mekong Basin, Mekong River Commission, Phnom Penh, Cambodia, 8-9 November.
11. Chantiwas, R., Beckett, R., Jakmunee, J., McKelvie, I., and Grudpan, K. (2001). Gravitational Field-Flow Fractionation in Combination with Flow Injection Analysis for Size-Based Speciation. 11th International Conference on Flow Injection Analysis. pp Chiang Mai, Thailand. 16-20 Dec.
12. Chantiwas, R., Jakmunee, J., Beckett, R., McKelvie, I., and Grudpan, K. (2001). Combination of Field-Flow Fractionation and Flow Injection Analysis. International Congress on Analytical Science. Japan.
13. Gray, S., McKelvie, I.D., and Grace, M.R. (2001). Determination of total dissolved nitrogen in natural waters by photooxidation and flow injection analysis. 11th International Conference on Flow Injection Analysis. Chiang Mai, Thailand. 16-20 Dec.

14. Gray, S., McKelvie, I.D., and Grace, M.R. (2001). Determination of total dissolved nitrogen in natural waters by photooxidation and flow injection analysis. R & D Topics -RACI Analytical Division. Analytical Division, RACI, RMIT University, Melbourne. 3-6 Dec.
15. Lyddy-Meaney, A., Ellis, P., McKelvie, I., Worsfold, P., and Butler, E. (2001). Development of a Portable, Compact Flow Injection Analyser for Spatial Distribution Analysis of Phosphorus in Environments. 11th International Conference on Flow Injection Analysis. Chiang Mai, Thailand. 16-20 Dec.
16. Lyddy-Meaney, A., Ellis, P., McKelvie, I., Worsfold, P., and Butler, E. (2001). Development of a Portable, Compact Flow Injection Analyser for Spatial Distribution Analysis of Phosphorus in Environments. R & D Topics -RACI Analytical Division. RMIT University, Melbourne. 3-6 Dec.
17. McKelvie, I.D. (2001). Flow Injection: An invaluable tool for studying the aquatic phosphorus cycle. 11th International Conference on Flow Injection Analysis. Chiang Mai, Thailand. 16-20 Dec.
18. McKelvie, I.D., Amini, N., Hindle, M.E., Gardolinski, P., Grace, M.R., Lovell, B., and Worsfold, P.J. (2001) Phosphorus in Fluvial Systems: Speciation, Transformations and Dynamics, Invited lecture. International P Transfer Workshop, Plymouth, UK.
19. Muangkaew, S., McKelvie, I., Grace, M., Rayanakorn, M., Grudpan, K., Jakmunee, J., and Nakapricha, D. (2001). The Development of a Reversed FIA Method for the determination of Dissolved Oxygen in Fresh and Marine Water. 11th International Conference on Flow Injection Analysis. Chiang Mai, Thailand. 16-20 Dec.
20. Tsyrlin, E., Walsh, C.J., and Breen, P.F. (2001). An experimental assessment of physical habitat restoration in urban streams (We built it but they still won't come). 40th Australian Society for Limnology Congress, Moama, Sep.
21. Walsh, C.J., Fletcher, T.D., Wong, T.H.F. and Breen, P.F. (2001). Developing predictive ecological capacity for a stormwater management decision-making framework. Third Australian Stream Management Conference, Brisbane, May.
22. Walsh, C.J. (2001). Detecting gradients among disturbed urban streams using macroinvertebrates: the importance of sampling effort and non-abundant species. 40th Australian Society for Limnology Congress, Moama, Sep.
23. Walsh, C.J., Sharpe, A.K., Breen, P.F., and Sonneman, J.A. (2001). Linking the effects of urbanization to stream macroinvertebrates: a heuristic model of urban constraints on species traits. 28th SIL Congress, Melbourne, February 8.
24. Grace, M. (2001) "Assessment of Ecological Risk Associated with Irrigation Systems in the Goulburn-Broken Catchment ", 40th Australian Society of Limnology Conference, Moama, New South Wales, Australia, 27 September - 1 October.
25. Watts K., M. Grace & B Hart (2001) "Sand Slugs: The hidden biogeochemistry within them", 40th Australian Society of Limnology Conference, Moama, New South Wales, Australia, 27 September - 1 October.
26. Watts K., M. Grace & B Hart (2001) "Biogeochemistry of a sand slug stream", 3rd Australian Stream Management Conference, Brisbane, Australia, 27-29 August.

2002

1. Beckett, R. (2002). Development of FFF-ICPMS and its Environmental Applications, 2002 Winter Conference on Plasma Spectrochemistry, Scottsdale, Arizona, USA, January

2. Beckett, R. (2002). Field-Flow Fractionation-ICP-MS Characterisation of Workplace Aerosols, 4th International Symposium on Modern Principles of Air Monitoring, Lillehammer, Norway, February.
3. Beckett R., Tri N. & Tangtreamjitmun, N. (2002). Use of Acoustic SPLITT Fractionation to Measure the Mechanical Properties of Materials, 10th International Symposium on Field-Flow Fractionation, Amsterdam, Netherlands, July.
4. Chantiwas R., Grudpan K., Jakmunee J. & Beckett R. (2002). Gravitational Field-Flow Fractionation with Electrothermal Atomic Absorption Spectrometry for Sized Based Speciation of Iron in Clays and Sediments, 10th International Symposium on Field-Flow Fractionation, Amsterdam, Netherlands, July.
5. Nguyen M., Liffman K., Rudman M., McKinnon I. & Beckett, R. (2002). Computational Modelling and simulation of Fluid Flows and Particle Transport in a SPLITT Fractionation Cell, poster at 10th International Symposium on Field-Flow Fractionation, Amsterdam, Netherlands, July.
6. Beckett R., Thomassen Y., Shanks F., Bundschuh T., Koster R., Napier K., Rogers B. & Dedrick R. (2002). Field-Flow Fractionation of Workplace Aerosols, poster at 10th International Symposium on Field-Flow Fractionation, Amsterdam, Netherlands, July.
7. Beckett, R. (2002). Thin Channel Fractionation for Characterisation of Environmental Colloids, EURESCO Symposium on Aquatic Colloids, Spa, Belgium, September.
8. Gray, S., Grace, M.R., and McKelvie, I.D. (2002). Flow injection analysis techniques for the determination of total dissolved nitrogen in natural waters. 10th RACI R&D Topics Meeting. RACI Analytical Division, Warrnambool, Vic, Dec.
9. Gray, S., McKelvie, I.D., and Grace, M.R. (2002). Determination of total dissolved nitrogen in natural waters by photooxidation and flow injection analysis incorporating bead injection analysis. Interact 2002. RACI Analytical Division, UNSW, Sydney. July.
10. Lyddy-Meaney, A., Ellis, P., and McKelvie, I. (2002). On-line Conductivity Determination for Salinity Correction of in situ phosphate measurements in aquatic environments using flow injection analysis. 10th RACI R&D Topics Meeting. RACI Analytical Division. Warrnambool, Vic, Dec.
11. Lyddy-Meaney, A., Ellis, P., McKelvie, I., Worsfold, P., and Butler, E. (2002). A Portable Flow Injection Analyser for Rapid In Situ Analysis of Phosphorus in Aquatic Environments. Interact 2002. RACI Analytical Division, UNSW, Sydney. July.
12. Reisman, E., Grace, M.R., and McKelvie, I.D. (2002). Determination of Iron speciation in aquatic systems by flow injection analysis. 10th RACI R&D Topics Meeting. RACI Analytical Division. Warrnambool, Vic, Dec.
13. Saefumillah, A., Roberts, S., Grace, M.R., and McKelvie, I.D. (2002). Study of organic phosphorus released from aquatic sediments. 10th RACI R&D Topics Meeting. RACI Analytical Division. Warrnambool, Vic, Dec.
14. Satiemperakul, S., Sheikheldin, S.Y., Cardwell, T.J., Catrall, R.W., Luque de Castro, M.D., McKelvie, I.D., and Kolev, S.D. (2002). Pervaporation-flow injection analysis of phenol after its conversion to phenyl acetate by on-line derivatisation. 10th RACI R&D Topics Meeting. RACI Analytical Division. Warrnambool, Vic, Dec.
15. Richardson, D., Hart, B.T., Jones, M., Nixon, C. & Kearney, P. (2001). Ecological risk assessment – A new approach to effluent management in the pulp and paper industry, APPITA 2000, Melbourne, May.
16. Hart, B.T., Webb, A., Grace, M., Feehan, P., Burgman, M., Allison, G. & Chapman, M. (2002). Ecological Risks from Australian Irrigation Enterprises, ANCID Conference, Griffith, NSW, 1-4 September.

17. Walsh, C.J. and Grace, M.R. (2002). A conceptual model of stormwater impacts on stream ecological function and structure. 42nd Congress of the Australian Society for Limnology, Margaret River, WA, 30 September - 3 October.
18. Tsyrlin, E., Walsh, C. and Newall, P. (2002). Impacts of stormwater and other urban factors on macroinvertebrate and diatom community composition. 42nd Congress of the Australian Society for Limnology, Margaret River, WA, 30 September - 3 October.
19. Grace, M.R., Walsh, C.J., and Webb, J.A. (2002). Assessing and preventing stormwater impacts to streams and priorities for restoration. 42nd Congress of the Australian Society for Limnology, Margaret River, WA, 30 September - 3 October.
20. Webb, A., Feehan, P., Hart, B.T., Grace, M. (2002). A protocol for assessing the ecological risks from Australian irrigation systems, 42nd Congress of the Australian Society for Limnology, Margaret River, WA, 30 September - 3 October.
21. Pollino, C., Feehan, P., Grace, M. and Hart, B.T. (2002). Using Ecological Risk Assessment to quantify the risks to fish in the Goulburn Broken Catchment, 42nd Congress of the Australian Society for Limnology, Margaret River, WA, 30 September - 3 October.
22. Hart, B.T., Webb, A., Feehan, P., Burgman, M., Allison, G. & Chapman, M. (2002). A protocol for assessing the ecological risks from Australian irrigation systems, 42nd Congress of the Australian Society for Limnology, Margaret River, WA, 30 September - 3 October.
23. Bourgues, S., Roberts, S. (2002). Production and Respiration in streams of varying catchment urbanization, 42nd Congress of the Australian Society for Limnology, Margaret River, WA, 30 September - 3 October.
24. Hatt, B., Fletcher, T.D. (2002). Impacts of stormwater drainage and sewerage design on pollutant transport, 42nd Congress of the Australian Society for Limnology, Margaret River, WA, 30 September - 3 October.
25. Taylor, S., Roberts, S., Hatt, B. (2002). Impacts of urban density and stormwater drainage systems on temporal and spatial patterns of benthic algal biomass, 42nd Congress of the Australian Society for Limnology, Margaret River, WA, 30 September - 3 October.
26. McKelvie, I.D. (2002) Flow-injection-analysis - applications for underway and continuously deployed monitoring (Invited Lecture), Third National Estuaries Meeting: Protecting Coastal and Estuarine Environments: Issues, Research Priorities and Opportunities for Inter-Agency Collaboration, Stradbroke Island, Queensland, 12 Nov.
27. Roberts, S., James, R., Taylor, J., Donnert, D., Furrer, R. & Hart, B.T. (2002). Use of active barriers to reduce eutrophication problems in urban lakes, ENVIRO 2002 Conference, Melbourne, 7-12 April.
28. Hart, B.T., Grace, M., Webb, A., Feehan, P. & Burgman, M. (2002). Application of ecological risk assessment in river management, 9th IASWS Conference, Banff, Canada, 5-10 May.
29. Howitt, J.A., Hart, B.T., Baldwin, D.S. & Rees, G.N. (2002). Sediments and carbon cycling: Photochemical interactions between suspended particles and dissolved organic matter, 9th IASWS Conference, Banff, Canada, 5-10 May.
30. Watts, K.E.N., Grace, M & Hart, B.T. (2002). Biogeochemical interactions within the hyporheic zone of a degraded rural stream, 9th IASWS Conference, Banff, Canada, 5-10 May.
31. Hart, B.T., Burgman, M., Grace, M. & Webb, J.A. (2002). Risk-based natural resource management, SETAC Conference, Vienna, 13-16 May.

32. Hart, B.T., Roberts, S., Grace, M., James, R., O'Donohue, M., Taylor, J., McWilliam, E., Waters, M., Donnert, D. & Furrer, R. (2002). Use of calcite active barriers to reduce phosphorus release from Lake Carramar sediments – effectiveness and ecological risks, Interact 2002, Sydney, 22-25 July.
33. Hart, B.T., Webb, A., Grace, M., Feehan, P., Burgman, M., Allison, G. & Chapman, M. (2002). Ecological Risks from Australian Irrigation Enterprises, ANCID Conference, Griffith, 1-4 September.
34. Hart, B.T., Lake, P.S., Webb, A. & Grace, M. (2002). Use of risk assessment to assess the ecological impacts of salinity on aquatic systems, Keynote Lecture, Prospects for Biodiversity and Rivers in Salinising Landscapes, Albany, WA, 21-25 October.

2003

1. Walsh, C. J. (2003). Stormwater drainage infrastructure: the key to conserving and restoring streams in urban catchments. Keynote address. Symposium on Urbanization and Stream Ecology, Melbourne, Victoria, 8 -10 December.
2. Catford, J., Walsh, C. & Beardall, J. (2003). The effect of light on benthic microalgae in streams of different catchment urbanization. Symposium on Urbanization and Stream Ecology, Melbourne, Victoria, 8 -10 December.
3. Perryman, S., Rees, G. & Walsh, C. (2003). Variation in the denitrifying community structure from streams in an urban and non-urban catchment. Symposium on Urbanization and Stream Ecology, Melbourne, Victoria, 8 -10 December.
4. Harbott, E., Hart, B. & Grace, M. (2003). Extracellular enzyme response to dissolved organic carbon in urban streams. Symposium on Urbanization and Stream Ecology, Melbourne, Victoria, 8-10 December.
5. Grace, M., Taylor, S. and Walsh, C. (2003). Urbanization effects on the metabolism of small streams. Symposium on Urbanization and Stream Ecology, Melbourne, Victoria, 8 -10 December.
6. Grace, M., Taylor, S. and Walsh, C. (2003). Urbanization effects on the metabolism of small streams. Joint 43rd Australian Society for Limnology Congress and 36th Congress of the New Zealand Limnological Society, Warrnambool, Victoria, 1-5 December.
7. Webb J.A, Pollino C.A., Hart B.T. & Grace M.R. (2003). Models for predicting algal blooms: how complex do they need to be? Joint 43rd Australian Society for Limnology Congress and 36th Congress of the New Zealand Limnological Society, Warrnambool, Victoria, 1-5 December.
8. Tewman, M., Walsh, C. and Quinn, G. (2003). The effect of macroinvertebrate grazers on benthic algae in an urban and forested stream in Melbourne, Victoria. Joint 43rd Australian Society for Limnology Congress and 36th Congress of the New Zealand Limnological Society, Warrnambool, Victoria, 1-5 December.
9. Walsh, C. (2003). How sensitive are the Victorian State Environment Protection Policy's biological objectives to stream degradation? Joint 43rd Australian Society for Limnology Congress and 36th Congress of the New Zealand Limnological Society, Warrnambool, Victoria, 1-5 December.
10. Pollino, C.A., Feehan, P., Grace, M., Hart, B. (2003) Quantifying the risks to fish in the Goulburn Broken catchment (Victoria, Australia). Joint 43rd Australian Society for Limnology Congress and 36th Congress of the New Zealand Limnological Society, Warrnambool, Victoria, 1-5 December.

11. Walsh, C.J. (2003). Linking urban design to the conservation and restoration of stream ecosystems. Workshop on the Comparative Ecology of Cities and Towns, Australian Research Centre for Urban Ecology, Melbourne University, July 20-22.
12. Harbott, E.L., Hart, B.T. and Grace, M.R. (2003). Extracellular enzyme response to dissolved organic carbon in urban streams. International Symposium on Enzymes in the Environment: Activity, Ecology and Applications. Prague, Czech Republic, 14-17 July.
13. Perryman, S., Walsh, C., Rees, G., Grace, M. (2003) Variation in the denitrifying community structure from streams in an urban and a non-urban catchment. Poster presentation. NISORS: Ninth International Conference on River Research and Applications. Albury, NSW, July 6-11.
14. Grace, M. R. (2003). Solving the Great Nitrogen Riddle. IC-03, Conference of the Inorganic Chemistry Division, Royal Australian Chemical Institute, University of Melbourne, Feb 2-6.
15. Webb J.A, Pollino C.A., Hart B.T. & Grace M.R. (2003). Models for predicting algal blooms: how complex do they need to be? Paper presented at the Ninth International Symposium on River Research and Applications (NISORS), Albury, Australia, July.
16. Hart B.T., Webb J.A., Grace M.R., Pollino C.A., Feehan P., Burgman M.A., Allison G. & Chapman M. (2003). Ecological Risks from Irrigation Enterprises. Paper presented at the Ninth International Symposium on River Research and Applications (NISORS), Albury, Australia, July.
17. Pollino, C.A., Feehan, P., Grace, M., Hart, B. (2003). Quantifying the risks to fish in the Goulburn Broken catchment. Poster presented at the Ninth International Symposium on River Research and Applications (NISORS), Albury, Australia, July.
18. Pollino, C.A., Feehan, P., Grace, M., Hart, B. (2003). Quantifying the risks to fish in the Goulburn Broken catchment (Victoria, Australia) using Bayesian networks. Society of Environmental Toxicology and Chemistry (SETAC), Christchurch, NZ, 26 - 1 September.
19. Pollino, C.A., Feehan, P., Grace, M., Hart, B., (2003). Adverse changes to the abundance and diversity of native fish in the Goulburn catchment. Invited paper presented at the symposium, River & Catchment Health: Presenting Current Research in the Goulburn-Broken Catchment, Dookie, Victoria, 5 August.
20. Webb J.A., Hart B.T. & Grace M.R. (2003). Assessing the ecological risks of salinity increases within the Goulburn-Broken catchment, Victoria. Invited paper presented at the symposium, River & Catchment Health: Presenting Current Research in the Goulburn-Broken Catchment, Dookie, Victoria, 5 August.
21. Grace, M. R., I. D. McKelvie, S. Roberts and A. Saefumillah. (2003). Environmental Factors Affecting Release of Organic Phosphorus from Sediments. Organic Phosphorus, 2003. Monte Verita, Ascona, Switzerland, 14-18 July.
22. McKelvie, I.D. (2003). Separation, preconcentration and speciation techniques for organic phosphorus in environmental samples (Invited Lecture). Organic P 2003. Ascona, Switzerland. 14 – 18 July.
23. McKelvie, I.D. (2003). Flow based techniques in process and environmental chemistry – Applications in the Steel industry (Invited Lecture). 146th ISIJ. Japan. 12 October.
24. Ellis, P.S., Lyddy-Meaney, A.J., and McKelvie, I.D. (2003). On-line salinity compensation for in situ phosphate determination of Estuarine Waters using Flow Injection Analysis. Flow Analysis IX. Geelong, Victoria, 17-21 February.
25. Gray, S., Grace, M.R., and McKelvie, I.D. (2003). A flow injection analysis technique for the determination of total dissolved nitrogen in natural waters by photo-oxidation and bead injection. Flow Analysis IX. Geelong, Victoria, 17-21 February.

26. Ratanawimarnwong, N., Amornthammarong, N., Uraisin, K., Nacapricha, D., Wilairat, P., and McKelvie, I.D. (2003). Gas diffusion flow injection for determination of iodide by chemiluminescence. Flow Analysis IX. Geelong, Victoria, 17-21 February.
27. Reisman, E., Grace, M.R., and McKelvie, I.D. (2003). Determination of Iron speciation in aquatic systems by flow injection analysis. Flow Analysis IX. Geelong, Victoria, 17-21 February.
28. Saefumillah, A., Roberts, S., Grace, M.R., and McKelvie, I.D. (2003). Determination of Dissolved organic phosphorus released from lake sediments using in-line photo-oxidation and flow injection analysis. Flow Analysis IX. Geelong, Victoria, 17-21 February.
29. Satienperakul, Sakchai, Cardwell, T.J., Cattrall, R.W., McKelvie, I.D., Luque de Castro, M.D., and Kolev, S.D. (2003). Pervaporation-flow injection analysis of phenol after on-line derivatisation. Flow Analysis IX. Geelong, Victoria, 17-21 February.
30. Tue-Nguen, O., Jakmunee, J., McKelvie, I.D., and Grudpan, K. (2003). Flow based analysis with electrochemical detection systems for the determination of some oxyhalides. Flow Analysis IX. Geelong, Victoria, 17-21 February.
31. Udnan, Y., Jakmunee, J., Morrison, R., Beckett, R., McKelvie, I.D., and Grudpan, K. (2003). Flow injection light scattering detection for determination of sulfate. Flow Analysis IX. Geelong, Victoria, 17-21 February.
32. Worsfold, P.J., Achterberg, E., Bowie, A., Gardolinski, P., Gledhill, M., Hanrahan, G., McKelvie, I., and Ussher, S. (2003). Flow injection techniques for advanced environmental diagnostics. Flow Analysis IX. Geelong, Victoria, 17-21 February.

2004

1. Ellis, P.S., Gray, S., Reisman, S., and McKelvie, I. (2004). Nutrient mapping of estuarine waters using new generation flow analysis systems. INTERACT 2004 RACI Congress, Gold Coast, Queensland. 4-8 July.
2. Grace, M.R. and C.J. Walsh (2004), "Its all in the connection" - Urban influences on streams, INTERACT 2004 RACI Congress, Gold Coast, Queensland. 4-8 July.
3. Rumhayati, B., Grace, M., and McKelvie, I.D. (2004). In Situ Measurement of Filterable Organic Phosphates in Sediment Pore Waters. Poster, INTERACT 2004 RACI Congress, Gold Coast, Queensland. 4-8 July.
4. Saefumillah, A., D. Holland, J.A. Webb, M.R. Grace, and I.D. McKelvie (2004). Physico-Chemical Conditions Affecting Organic and Inorganic Phosphorus Release from River Sediments, Poster, INTERACT 2004 RACI Congress, Gold Coast, Queensland. 4-8 July.
5. Gray, S.M., Grace, M.R., and McKelvie, I.D. (2004). Underway determination of total alkalinity in estuarine waters by reagent injection flow analysis. 12th RACI Analytical and Environmental Research and Development Topics Meeting, University of Melbourne, 5-8 December.
6. McKelvie, I.D., Ellis, P., and Gray, S. (2004). Macronutrient mapping in estuarine and marine waters by flow analysis. Invited lecture, 3rd TRF Annual Symposium on TRF Senior Research Scholar on Flow-Based Analysis. Chiang Mai University, Thailand. 21-23 Sept.
7. Tue-Ngeun, O., Ellis, P., McKelvie, I.D., Worsfold, P., Jakmunee, J., and Grudpan, K. (2004). Flow injection with on-line UV photooxidation for spectrophotometric detection of dissolved reactive phosphorus (DRP) and dissolved organic phosphorus (DOP) in natural water. Poster, 3rd TRF Annual Symposium on TRF Senior Research Scholar on Flow-Based Analysis. Chiang Mai University, Thailand. 23 Sept.

8. Udnan, Y., McKelvie, I.D., Jakmunee, J., and Grudpan, K. (2004). Flow injection amperometry for phosphate determination in high salinity water and on-line preconcentration for low level phosphate water. Poster, 3rd TRF Annual Symposium on TRF Senior Research Scholar on Flow-Based Analysis. Chiang Mai University, Thailand. 23 Sept.
9. McKelvie, I.D. (2004). Flow Analysis: Still hooked after all these years, Analytical Division Medallist's Address, 12th RACI Analytical and Environmental Research and Development Topics Meeting, University of Melbourne, 5-8 December.
10. Ratanawimarnwong, N., Wilairat, P., McKelvie, I., Cardwell, T., and Nacapricha, D. (2004). Pervaporation-flow injection for determination of iodide by chemiluminescence. 30th Congress on Science and Technology of Thailand, The Science Society of Thailand, Muang Thong Thani, Thailand. 29-31 October.
11. Atkinson, B.A., M.R. Grace and B.T. Hart (2004). Ecosystem Function Responses to Stream Rehabilitation in the Granite Creeks, 12th RACI Analytical and Environmental Research and Development Topics Meeting, University of Melbourne, 5-8 December.
12. Sulfikar, M.R. Grace and B.T. Hart (2004). Applicability of nutrient spiraling as an indicator of the ecological functions. An analysis of possible errors in the enrichment experiment, 12th RACI Analytical and Environmental Research and Development Topics Meeting, University of Melbourne, 5-8 December.
13. Rumhayati, B., Grace, M., and McKelvie, I.D. (2004). In Situ Preconcentration and Measurement of Filterable Organic Phosphates in Sediment Pore Waters. Poster, 12th RACI Analytical and Environmental Research and Development Topics Meeting, University of Melbourne, 5-8 December.
14. Saefumillah, A., Holland, D., Grace, M.R., and McKelvie, I. (2004). Physico-chemical conditions affecting organic and inorganic phosphorus release from river sediments. Poster, 12th RACI Analytical and Environmental Research and Development Topics Meeting, University of Melbourne, 5-8 December.
15. Vanderkruk, K.E., M.R. Grace and B.T. Hart (2004), Hyporheic Nutrient Dynamics in Creightons-Branjee Creek, Victoria, Poster, 12th RACI Analytical and Environmental Research and Development Topics Meeting, University of Melbourne, 5-8 December.
16. Conway, C., M. Lutton, N.J. Beard, D Holland, M.R. Grace, R. DeHayr and H. Hunter (2004). The effect of vegetation on nitrogen cycling in small streams and riparian zones, 43rd Annual Congress of the Australian Society for Limnology, Adelaide, 29 November - 4 December.
17. Grace, M.R. (2004). Ecosystem Function Measures as Indicators of Stream Health? 43rd Annual Congress of the Australian Society for Limnology, Adelaide, 29 November - 4 December.
18. Harbott, E., M.R. Grace and B.T. Hart (2004), Carbon availability and enzymes: The effect of urbanisation, 43rd Annual Congress of the Australian Society for Limnology, Adelaide, 29 November - 4 December.
19. Lansdown, K.P., M.R. Grace, P. Symes, and J.A. Webb (2004). The role of the sediments in nutrient cycling in the Ornamental Lake, Poster, 43rd Annual Congress of the Australian Society for Limnology, Adelaide, 29 November - 4 December.
20. Perryman, S., Walsh, C., and Rees, G. (2004). Denitrifiers along an urban gradient: they're not that cosmopolitan. 43rd Annual Congress of the Australian Society for Limnology, Adelaide, 29 November - 4 December.

21. Sulfikar, M.R. Grace and B.T. Hart (2004). Can nutrient spiraling measurements detect seasonal pattern of nutrient use? A case study in Lyrebird Creek, a forested stream in the Dandenong Ranges, Victoria, 43rd Annual Congress of the Australian Society for Limnology, Adelaide, 29 November - 4 December.
22. Tewman, M, Walsh, C. and Tsyrlin E. (2004). Impacts of stormwater treatment wetlands on stream macroinvertebrates: could we be degrading streams to reduce pollutant loads? 43rd Annual Congress of the Australian Society for Limnology, Adelaide, 29 November - 4 December.
23. Vanderkruk, K.E., M.R. Grace and B.T. Hart (2004), Hyporheic Nutrient Dynamics in Creightons-Branjee Creek, Victoria, Poster, 43rd Annual Congress of the Australian Society for Limnology, Adelaide, 29 November - 4 December.
24. Grace, M.R., C.J. Walsh and S. Taylor (2004). Whole Stream Metabolism Across An Urbanization Gradient, Stream Metabolism Workshop, NSW EPA, Sydney, NSW, May.
25. Grace, M.R. (2004), Stream Metabolism - Technical Issues, Stream Metabolism Workshop, NSW EPA, Sydney, NSW, May.
26. Grace, M.R. (2004). Ecosystem Function Measures as Integrative Indicators of Catchment Condition, CRCFE Modelling Symposium, Griffith University, Brisbane, November.
27. Walsh, C. J. (2004). Setting objectives for stormwater management to protect stream ecosystems. Stormwater Workshop, Auckland Regional Council, Auckland, NZ, 21-22 October.
28. Walsh, C.J., Ladson, A.R. & Fletcher, T.D. (2004). Stream restoration by 'disconnecting' urban stormwater drainage in the watershed: predictive models and experimental design. Meeting of the North American Benthological Society, Vancouver, Canada, 6-10 June.
29. Tue-Ngeun, O., Ellis, P., McKelvie, I.D., Worsfold, P., Jakmunee, J., and Grudpan, K. (2004). Flow injection with on-line UV photooxidation for spectrophotometric detection of dissolved reactive phosphorus (DRP) and dissolved organic phosphorus (DOP) in natural water, Poster, SECOTOX. Songkla, Thailand. 28-30 Sept.
30. Grace, M. R. (2004). Water Quality Monitoring Programs in Australia - Shortcomings and Possible Solutions. CRC for Water Quality and Treatment Workshop, Melbourne Water, October.

2005

1. Rumhayati, B., M. R. Grace & I. D. McKelvie (2005). A prospective binding gel of DGT technique for measuring filterable organic phosphorus from sediment pore and overlying waters. 10th International Symposium on the Interactions Between Sediments and Water, Bled, Slovenia, 28 Aug - 2 Sept.
2. Sulfikar, B. T. Hart & M. R. Grace (2005). Can nutrient spiralling measurements detect seasonal pattern of nutrient use? A case study in Lyrebird Creek, a forested stream in The Dandenong Ranges, Victoria. 10th International Symposium on the Interactions Between Sediments and Water, Bled, Slovenia, 28 Aug - 2 Sept.
3. Grace, M. R., B. Atkinson & B. Hart (2005). Smothered in Sand - Stream Metabolism in a sand-slugged stream. 44th Congress of the Australian Society for Limnology, University of Tasmania, Hobart, Tasmania, 29 Nov-2 Dec.
4. Coleman, R., Walsh, C., Quinn, G. & McCasker, N. (2005). Aquatic macroinvertebrate responses to large woody debris reintroduction and implications for determining restoration success. 44th Congress of the Australian Society for Limnology, University of Tasmania, Hobart, Tasmania, 29 Nov-2 Dec.

5. Macqueen, A. & Downes, B. J. (2005). The indirect effects of flood disturbance on benthic invertebrate grazers as mediated by algal food resources. 44th Congress of the Australian Society for Limnology, University of Tasmania, Hobart, Tasmania, 29 Nov-2 Dec.
6. Vanderkruk, K. & Walsh, C.J. (2005). Turning a sink into a source: conventional urban stormwater drainage may reduce nitrogen retention in riparian soils. 44th Congress of the Australian Society for Limnology, University of Tasmania, Hobart, Tasmania, 29 Nov-2 Dec.
7. Reisman, E., M. R. Grace & I. D. McKelvie (2005). Adaptive generalised flow analysis systems for water quality monitoring. 13th RACI Analytical and Environmental Research and Development Topics, Mt Eliza, Victoria, 10-13 Dec.
8. Rumhayati, B., M. R. Grace & I. D. McKelvie (2005). A prospective binding gel for DGT measurement of filterable organic phosphorus from sediment pore and overlying waters. 13th RACI Analytical and Environmental Research and Development Topics, Mt Eliza, Victoria, 10-13 Dec.
9. Hart, B., C. Pollino, T. Chan, M. R. Grace, A.-M. Westbury, D. Tiller & M. Chapman (2005). Management of ecological risk from irrigation using Bayesian network decision making tools. ANCID 2005, Mildura, 23-26 Oct.
10. McKelvie, I.D. (2005). Coming to grips with the Schlieren Effect: Use of multi-reflection detection systems in flow analysis. Invited Lecture, Pacifichem 2005: Symposium #286: Recent Development of Sensing Chemistry and Chemical Separation Systems for Innovation in Chemical Analysis, American Chemical Society, Hawaii, 15-20 December.
11. McKelvie, I.D. (2005). Surface mapping of macronutrients in marine and estuarine waters using multiple reagent injection techniques. Invited Lecture, Pacifichem 2005: Symposium #16: Flow based analysis: State-of-the-art flow methods in analytical chemistry, American Chemical Society, Hawaii, 15-20 December.
12. Saefumillah, A., Grace, M.R. & McKelvie, I.D. (2005). Solid phase extraction and characterization of organic phosphorus in slurry sediment incubation by ³¹P-NMR, Poster, Pacifichem 2005: Environmental Chemistry: General Poster Session, American Chemical Society, Hawaii, 10-15 Dec.
13. McKelvie, I.D. (2005). Fate of Inositol Phosphates in Aquatic Systems. Invited Lecture, Bouyoucos Conference sponsored by the Soil Science Society of America and the Smithsonian Institute, Sun Valley, Idaho, USA, 21-24 August.
14. McKelvie, I.D. (2005). Flow Based Analysis Techniques for Underway Nutrient Mapping in Marine and Estuarine Systems. ICFIA 2005, Las Vegas, USA, 24-29 April.
15. Fletcher, T. D. & Walsh, C. J. (2005). An overview of MUSIC v3 and its applications for modelling stormwater management to achieve ecosystem health improvement. Stormwater Industry Association of Queensland State Conference, Gold Coast 14-15 April.
16. Padgham, M. & Walsh, C. J. (2005). A method for adapting ecological distance matrices to asymmetrical autocorrelation within dendritic stream networks. Joint meeting of the North American Benthological Society and American Geophysical Union, New Orleans, USA, 23-27 May.
17. Walsh, C. J. & Padgham, M. (2005). An inter-city comparison of macroinvertebrate assemblage response to urban land use in Southeastern Australia. Joint meeting of the North American Benthological Society and American Geophysical Union, New Orleans, USA, 23-27 May.

2006

1. Atkinson, B. L., M. R. Grace and B. T. Hart (2006). Smothered by sand: metabolism in a sand-slugged stream. 54th North American Benthological Society Annual Meeting, Anchorage, Alaska, June 4-8.
2. Fellows, C. S., C. L. Conway, M. R. Grace, K. A. Markwell, H. M. Hunter, N. J. Beard, C. Russell, R. DeHayr, S. E. Bunn and P. M. Davies (2006). Riparian zone and in-stream denitrification in three contrasting regions of Australia. 54th North American Benthological Society Annual Meeting, Anchorage, Alaska, June 4-8.
3. Grace, M., D. Nash, S. Roberts, P. Lind and J. Sherwood (2006). The role of *Phragmites australis* in nutrient cycling. Wimmera River Nutrients Workshop, Horsham, 20th April.
4. Grace, M. R., (2006). Challenges and Opportunities in Aquatic Chemistry - An Overview of Research in the Water Studies Centre at Monash University. Singapore-Australia Chemistry Collaborative and Cooperative Symposium, National University of Singapore, 22-23 November.
5. Grace, M. R., (2006). Lake Sediments - Internal Sources of Nutrients. 'Out of sight, out of mind?'. BGANZ Water Tension Workshop. Botanic Gardens of Australia and New Zealand., Royal Botanic Gardens, Melbourne, 25-26 October.
6. Grace, M. R., (2006). Recent Developments in Stream Metabolism in Australia. Functional Indicators Workshop, Ministry for the Environment, Wellington, NZ, April 26.
7. Grace, M. R. and R. G. Young (2006). Using Ecosystem Functions for Stream Health Assessment. 54th North American Benthological Society Annual Meeting, Anchorage, Alaska, June 4-8.
8. Ladson, A. R., Lloyd, S., Walsh, C. J., Fletcher, T. D., and Horton, P. (2006). Scenarios for redesigning an urban drainage system to reduce runoff frequency and restore stream ecological condition. Urban Drainage Modelling and Water Sensitive Urban Design Conference, Melbourne, April 3-7.
9. McKelvie, I.D., Ellis, P.S., Reisman, E.G. and Gray, S.M. (2006). New insights into phosphorus biogeochemistry through the application of flow injection analysis. Flow Analysis X, Oporto, Portugal. 3-8 September.
10. McKelvie, I.D. (2006). Flow analysis as a vehicle for environmental measurement, Keynote lecture. INTERACT 2006, Perth, WA. 24-28 September.
11. Monbet, P., Saefumillah, A., McKelvie, I., and Worsfold, P. (2006). Characterization of dissolved organic phosphorus in eutrophic sediment porewater of Gippsland Lakes (Australia) with sequential enzymatic hydrolysis extraction, Session on 'Global challenges facing oceanography and limnology', American Society for Limnology and Oceanography, Summer Meeting, Victoria, Canada, 4-9 June.
12. Oguma, K., Yoshizumi, A., McKelvie, I.D., and Fujinami, M. (2006). Determination of molybdenum in seawater by on-line preconcentration and spectrophotometric detection. Flow Analysis X, Oporto, Portugal, 3-8 September.
13. Rumhayati, B., Grace, M.R. and McKelvie, I.D. (2006). Performance of the $\text{La}(\text{OH})_3$ Binding gel for In Situ Measurement, International Conference for Young Chemists, USM Penang, Malaysia, 24-27 May.
14. Rumhayati, B., Grace, M.R. and McKelvie, I.D. (2006). The uptake of phosphate compounds onto the $\text{La}(\text{OH})_3$ binding gel, RACI R&D Topics in Analytical and Environmental Chemistry, University of Wollongong, 5-8 December.

15. Thomas, C. R., B. T. Hart, A. Nicholson, M. R. Grace and J. Brodie (2006). New tools for old problems: Bayesian networks assist seagrass management in the Great Barrier Reef, Australia. American Society of Limnology and Oceanography, Summer Meeting, Victoria, British Columbia, Canada, June 4-9.
16. Walsh, C. J. and Fletcher, T. D. (2006). Water Sensitive Urban Design—can it really protect the environmental quality of receiving waters? Proceedings of the 2nd Conference on Sustainable Water in the Urban Environment. Australian Water Association, Stormwater Industry Association and Urban Development Institute of Australia, Sippy Downs, Queensland.
17. Grace, M.R. (2006). In-stream and Riparian Zone Nitrogen Dynamics. Victorian Dept Primary Industries Workshop on Riparian Zone Management, Monash University, 8 May.

2007

1. Chan, T. “Research Progress Report 2: Solomon Islands Risk Assessment”. Presentation to AusAID and the Project Steering Committee. AusAID Offices, Northbourne Ave, Canberra. June 1.
2. Chan, T., “Research Progress Report 4 and Preliminary Results: Solomon Islands Risk Assessment”. Presentation to AusAID, invitees, and the Project Steering Committee. AusAID Offices, Northbourne Ave, Canberra. November 20.
3. Beckett, R. “Development of Field-Flow Fractionation (interaction between theory and experiment)”, International Symposium on Flow Based Analysis VII, Chiang Mai, Thailand, 18-20 December.
4. Grace, M.R., Hanafi, S. and Hart, B.T. “Uncertainty in Nutrient Spiraling Measurements: Implications for In-stream Nutrient Uptake Studies.” 30th Congress of the International Association of Theoretical and Applied Limnology (SIL). Montreal, Canada, 12-18 August.
5. Grace, M.R., Lansdown, K., Vanderkruk, K. and Roberts, K.. “Look. Up in the sky. It's a major nitrogen source!”, Joint Congress of the Australian Society for Limnology & the New Zealand Freshwater Sciences Society. Queenstown, NZ, 3-7 December, 2007
6. Lansdown, K., Grace, M.R., and Cartwright, I. “Investigating nitrate sources and processing in headwater streams using stable isotopes.” Joint Congress of the Australian Society for Limnology & the New Zealand Freshwater Sciences Society. Queenstown, NZ, 3-7 December.
7. McKelvie, I.D. “Water quality assessment by flow injection analysis” (Keynote Lecture). 14th International Conference on Flow Injection Analysis, Berlin, Germany. 2-7 September.
8. Overall, R., Grace, M.R., Pollino, C.A. and Hart, B.T.. “Assessing the Risk on Denitrification in Urban Wetlands from Heavy Metals.” Wetpol 2007: 2nd International Symposium on Wetland Pollution Dynamics & Control. University of Tartu, Tartu, Estonia, 16-20 September.
9. Padgham, M. “Large-scale, coherent rainfall systems, the Madden-Julian Oscillation, and flow volumes in Australia's Murray-Darling Basin”. XXIV IUGG (International Union of Geodesy and Geophysics) Conference, Perugia, Italy, July 2-13.
10. Ross, H., Powell, B., Chan, T. and Hoverman, S. “Conceptualising a catchment: interdisciplinary research assisting management of the Kongalai Catchment, Solomon Islands”, International River Symposium, Brisbane, September 5.

11. Wheeler, P., Kunapo, J., Peterson, J. and McMahon, M. 2007. Mapping relative inundation vulnerability of land parcels on low-lying ground: exemplification with a photogrammetrically-derived DEM-based model of Lakes Entrance, Victoria, Australia. SSC 2007 Spatial Intelligence, Innovation and Praxis: The national biennial Conference of the Spatial Sciences Institute, Hobart, Australia, 14-18 May.
12. Imberger, S., Walsh, C. and Grace, M. "Urbanisation elevates the breakdown rate of labile leaf litter in small streams through an increase in microbial activity." Poster at the 10th International River Symposium and Environmental Flows Conference, Brisbane, Qld, 3-6 September.
13. 2. Nguyen, M., Rhodes, M., Liffman, K., McKinnon, I. and Beckett, R. "Study of Split-Flow Thin-Channel Fractionation Using the Discrete Element Simulation Method." Poster at the 13th International Symposium on Field and Flow Based Separations, Salt Lake City, Utah, USA, 27-30 June.
14. Zhao, J.B., Keith-Roach, M., Tain, A., McKelvie, I.D., and Worsfold, P.J. (2007). Determination of phosphorus in the Plym River and its uptake by bacteria. Poster at the RSC Analytical Research Forum. University of Strathclyde, Glasgow. 16-18 July.
15. Grace, M.R. "Poor outcomes from altered flow regimes". Water in 2007: Stakeholders, policy & the election. Centre for Public Policy, University of Melbourne, March 30, 2007. Invited presentation.
16. McKelvie, I.D. (2007). Flow injection: An invaluable tool for the study of macronutrient ions in aquatic systems. Conference on Ion Analysis. Technische Universität Berlin, Berlin. 12-14 March. Invited presentation.

Seminars

2000

1. Hart, B.T., Grace, M., Harper, M. & Bourgues, S. (2000). Issues Facing Australia in the New Millennium – Nutrients, Invited Lecture, RACI Environment Chemistry Division, Canberra, 8 February.
2. Hart, B.T. (2000). New Water Quality Guidelines for Australian & New Zealand, Invited Lecture, Water 2000, New Zealand Water & Wastewater Association, Auckland, New Zealand, 21 March.
3. Hart, B.T. (2000).). New Water Quality Guidelines for Australian & New Zealand – The Effective “Packaging” of Scientific Knowledge, Latrobe University, Bendigo, 12 April.
4. Hart, B.T., O’Donohue, M., Roberts, S. & Heislars, S. (2000). Nutrient release from sediments in the Gippsland lakes, Watermark Conference, Gippsland’s environment - Under the microscope, Sale, 27 November.
5. Hart, B.T., O’Donohue, M. & Beckett, R. (2000). Ecological risk assessment of the use of active barriers with contaminated sediments, Aust-German Alliance Workshop, Hamburg, Germany, June.
6. Hart, B.T., O’Donohue, M. & Beckett, R. and others (2000). Experimental approaches to assessing the effectiveness of active barriers for preventing nutrient release from contaminated sediments, Aust-German Alliance Workshop, Hamburg, Germany, June.
7. Hart, B.T. (2000). CRC for Freshwater Ecology – a new model for knowledge generation and exchange, Monash Chemical Society Seminar, Melbourne, 26 July.
8. Hart, B.T. (2000). Challenges in integrated natural resource management, Integrated Natural Resource Management Forum, Traralgon, 13 November.
9. Grace, M.R. (2000). Water Quality & Environmental Stressors on the Gippsland Lakes. Invited Seminar to DNRE Cadets, Monash University Churchill Campus, 25 Sept.
10. McKelvie, I.D., Ellis, P., and Hart, B.T. (2000). A remotely deployed flow injection system for monitoring biological nutrient removal wastewater treatment plants. Pasminco. Hobart. 5 Sept.
11. McKelvie, I.D. (2000). Nutrient analysis of waters and wastewaters-portable and remote flow injection techniques. Technische Universität Berlin, Berlin, Germany. 3 July.
12. McKelvie, I.D. (2000). Enzymatic flow analysis techniques-some environmental applications. School of Chemistry. University of Tasmania. 23 August.
13. McKelvie, I.D. (2000). Field monitoring by flow injection analysis-wishful thinking or practical reality? RACI Tasmanian Branch. Hobart. 5 Sept.
14. McKelvie, I.D. (2000). Field monitoring by flow injection analysis-wishful thinking or practical reality? La Trobe University, Bundoora. 26 Oct.
15. Walsh, C.J. (2000). Biological assessment of urban impacts to streams: some new approaches. River Basin Management Society, Waterway Management Seminar. University of Ballarat, Ballarat, Victoria, August 2.
16. Walsh, C.J. (2000). A look at the city from the stream: why limnologists should care more about urbanization. ASL Victorian Branch Seminar, Melbourne, August 24.

2001

1. Hart, B.T. and Jones, G. (2001). Ecological risk assessment – determining conceptual models for Southeast Queensland Water’s reservoir, Southeast Queensland Water, Brisbane, 30 April.

2. Burgman, M.A. and Hart, B.T. (2001). Ecological risk assessment, Training Workshop for Dept Natural Resources & Environment, Melbourne, 19 July.
3. Burgman, M.A. and Hart, B.T. (2001). Ecological risk assessment, Training Workshop for Dept Natural Resources & Mines, Brisbane, 27 July.
4. Grace, M. (2001), "Fundamentals of Ecological Risk Assessment", Victorian EPA Workshop, Queenscliff, 19-20 September.
5. Grace, M. (2001), "Port Phillip Bay - A green swamp? The role of nitrogen in our waterways", Seminar to School of Chemistry, Melbourne University, 6 April.
6. Breen, P., Walsh, C., Nichols, S., Norris, R., Metzeling, L. & Gooderham, J. (2001). Urban AUSRIVAS: An Evaluation of the Use of AUSRIVAS Models for Urban Stream Assessment. National River Health Program - Urban Sub-Program Seminar, Environment Australia, Canberra, February 21.
7. Hart, B.T. (2001). Application of ecological risk assessment in catchment management. Mekong River Commission, Phnom Penh, Cambodia, 13 September.

2002

1. Grace, M., Webb, J. (2002). Modelling blue-green algal blooms in Bourke Weir, NSW: implications for system management. Seminars for NSW Dept of Land & Water Conservation, Sydney & Dubbo, July.
2. Webb, J., Grace, M. (2002). The development of a process-based model of cyanobacterial blooms in Bourke Weir, NSW. Seminars for NSW Dept of Land & Water Conservation, Sydney & Dubbo, July.
3. Grace, M. (2002). Biogeochemistry Research at the Water Studies Centre, Sediment Biogeochemistry Workshop, Southern Cross University, Lismore, NSW, December
4. Grace, M. (2002). Port Phillip Bay - A green swamp? The role of nitrogen in our waterways. Seminar, Deakin University, Oct 25.
5. Hart, B.T. (2002). Ecological risk assessments: helpful for NRM?, Edith Cowen Univ., Perth, 1 November.
6. Hart, B.T. (2002). Quantitative ecological risk assessment: Role of modelling, Centre for Water Research, Univ. Western Australia, Perth, 27 November.
7. McKelvie, I.D. (2002). New generation flow analysis systems for chemical mapping in estuarine and marine waters, Chiang Mai University, Thailand, 3 Dec.
8. McKelvie, I.D. (2002). Flow analysis systems for chemical mapping in estuarine and marine waters, Mahidol University, Thailand, 4 Dec.
9. McKelvie, I.D. (2002) Microfluidic analysis systems for chemical mapping in marine and estuarine environments, RMIT University, 5 June.

2003

1. Grace, M. R. (2003). An Environmental Crime? Solving the Great Nitrogen Riddle. Dept of Environmental Sciences, University of Plymouth, Plymouth, UK, July.

2. Walsh, C. J. (2003). Stream Ecology and the City: Identifying and managing the cause of poor ecological condition of streams in urban catchments. School of Biological & Chemical Sciences, Deakin University, Burwood, April.
3. Pollino, C.A., Feehan, P., Grace, M., Hart, B., Webb, J.A., Chan, T. (2003) Quantifying the risks to fish in the Goulburn Broken catchment (Victoria, Australia). Melbourne Bayes Net Workshop, Melbourne 25 July.
4. Hart, B.T. (2003). Challenges for natural resource management. Centre for Water Research, Univ. of Western Australia, Perth, 12 February.
5. Hart, B.T. (2003). Ecological risk assessment: A new tool for resource managers. Murdoch University, Western Australia, 12 February.
6. McKelvie, I.D. (2003). New generation flow analysis systems for analysis of nutrients in aquatic systems. University of Chiba, Japan, 10 October.
7. McKelvie, I.D. (2003). New generation flow analysis systems for environmental analysis. University of Melbourne, 12 April.

2004

1. Walsh, C.J. & Ladson, A.R. (2004). Melbourne's streams: what's wrong with them and how can they be fixed? Water Engineering Branch of Engineers Australia (Vic Division), Melbourne, 25 March.
2. Walsh, C.J. (2004) The costs of not changing the way we manage stormwater. Stormwater Industry Association of Victoria, 'Water the precious drop'. Melbourne, 3 November.
3. Grace, M. R. (2004). Bats & Biogeochemistry - Going green isn't great for the Royal Botanic Gardens lake. School of Chemistry, University of Melbourne. 13 Sept.
4. Lansdown, K. P., M. R. Grace & P. Symes (2004). The role of the sediments in nutrient cycling in the Ornamental Lake, Mueller Hall, Royal Botanic Gardens, 15 December.
5. McKelvie, I.D. (2004). Macronutrient mapping in estuarine and marine waters by flow analysis. Mahidol University, Bangkok, Thailand, 17 Sept.
6. McKelvie, I.D. (2004). Flow based techniques for nutrient mapping in estuarine and marine waters. Deakin University, 18 June.

2005

1. Grace, M. R. (2005). Ecosystem Function Measures as Indicators of Disturbance? Institute for Ecosystem Studies, Millbrook, NY, 5 July.
2. Grace, M. R. (2005). An Environmental Crime? Solving the Great Nitrogen Riddle. School of Chemistry, University of Calgary, Alberta, Canada, 18 July.
3. Grace, M. R. (2005). Water Quality Issues in Victoria. Seminar to the Victorian Dept of Primary Industries, Werribee, 15 Feb.

2006

1. Grace, M. R. (2006). Ecosystem Function Measures as Indicators of Disturbance? School of Biology, Virginia Tech, Blacksburg, Virginia, USA. June 13.

2. Grace, M. R. (2006). Ecosystem Function Measures as Indicators of Disturbance? Oak Ridge National Laboratories, Oak Ridge, Tennessee, USA. June 15.
3. Grace, M. R. (2006). Le Tour de Sediment. Biogeochemical Cycling, Chemistry Department, Latrobe University. 24th October.
4. Grace, M. R. (2006). Le Tour de Sediment. Biogeochemical Cycling, School of Chemistry, University of Melbourne. 26th October.
5. Grace, M. R. (2006). Le Tour de Sediment. Biogeochemical Cycling, Australian Rivers Institute, Griffith University, Brisbane. 27th October.
6. McKelvie, I.D. (2006). Flow analysis as a vehicle for environmental measurement. School of Chemistry, Monash University. 29 May.
7. Walsh, C. J. (2006). Strategies for protecting the Yarra - prioritizing stormwater management & septic tank management. Seminar to Yarra Coordinating Committee, EPA Victoria, 6 July.
8. Walsh, C. J. (2006). Strategies for protecting the Yarra - prioritizing stormwater management & septic tank management. Seminar to combined meeting of the Yarra taskforces for stormwater and septic tanks, Department of Sustainability and Environment, 16 August.
9. Walsh, C. J., Kunapo, J., Padgham, M., and Coleman, R. (2006). Priorities for protecting the Yarra - Stormwater pipes before septic tanks. Seminar to Yarra Valley Water, 12 April.
10. Walsh, C. J., Kunapo, J., Padgham, M., and Coleman, R. (2006). Priorities for protecting the Yarra - Stormwater pipes before septic tanks. Seminar to Melbourne Water, 19 May.
11. Walsh, C. J. (2006). What ails the Yarra, and what we can do to protect it. Manningham University of the Third Age, 1 June.
12. Walsh, C. J. (2006). Protecting the health of streams from urban stormwater runoff. Presented to (and as part of) the technical expert panel for flow management design objectives for water sensitive urban design in southeast Queensland. Brisbane, June.
13. Walsh, C. J. (2006). Sustainable Rivers Audit (Getting better value out of) the Macroinvertebrate Theme. Presentation to the Annual General Meeting of the Murray Darling Basin Commission Sustainable Rivers Audit. Victor Harbor, SA June.

2007

1. Beckett, R. "Use of Field-Flow Fractionation for Characterisation of Environmental Colloids", School of Bioengineering, University of Utah, USA, June.
2. Chan, T. "Gippsland Catchments Ecological Risk Assessment". Expert elicitation workshop. EPA MacLeod, Victoria. December 18.
3. Chan, T. "A Risk Assessment for Water Resources in Kongulai catchment, Solomon Islands", School of Biological Sciences Research Seminars, Monash University, September 4.
4. Grace, M.R. "Ecosystem Function Measures as Indicators of Disturbance?" School of Biological Sciences, Notre Dame University, Indiana, USA. 8 August.
5. Grace, M.R. "Uncertainty in Nutrient Spiraling Measurements: Implications for In-stream Nutrient Uptake Studies." School of Biological Sciences, Notre Dame University, Indiana, USA. 7 August.
6. Kunapo, J. A GIS approach for high resolution effective impervious mapping. Melbourne Water, 6 February.

7. Kunapo, J. Can detailed geography derived from high resolution data help water sensitive urban design? A presentation to Melbourne Water, Department of Sustainability and Environment, Stonnington, Bayside, Kingston, Glen Eira, Port Phillip and Boroondara Councils. Melbourne Water, 23 February.
8. McKelvie, I.D. Nutrient inter-comparisons-the state of play in Australia. National Oceanography Centre. Southampton, UK. 26 February.
9. McKelvie, I.D. A nexus between flow analysis and nutrient biogeochemistry in aquatic systems. University of Plymouth, BEACh group. Plymouth, UK. 28 February.
10. McKelvie, I.D. Applications of flow Injection analysis in the study of aquatic biogeochemistry (Invited Lecture). Department of Analytical Chemistry, University of Leipzig, Germany. 16-17 March.
11. McKelvie, I.D. Flow Analysis – New techniques for investigating phosphorus biogeochemistry in aquatic systems (Invited Lecture). Royal Society for Chemistry-Peninsula Section. Plymouth, UK. 9 May.
12. McKelvie, I.D., Ellis, P.S., Saefumillah, A., and Rumhayati, B. Inositol phosphates in aquatic ecosystems: Origin, biogeochemistry, sampling and measurement Deakin University. Geelong. 9 November.
13. McKelvie, I.D. Inositol phosphates in aquatic ecosystems: Origin, biogeochemistry and characterization. Chiang Mai University. Chiang Mai, Thailand. 20 November.
14. McKelvie, I.D. The Schlieren Effect: the Bane* of Photometric Flow Analysis! Recognizing and overcoming it. Department of Chemistry, Chiang Mai University, Thailand. 29 November.
15. Walsh, C.J. The keys to restoring the Yarra River. Transcript of a presentation by Chris Walsh at the Manningham Function Centre, Melbourne, as part of the seminar 'Water Quality in the Yarra River', organized by the Port Phillip and Westernport Catchment Management Authority and Yarra Riverkeeper's Association. 15 June.