

The Murray-Darling Freshwater Research Centre Publications | 2016



Refereed Journal Articles (published)

- Attygalia NW, Baldwin DS, Silvester E, Kappen P, Whitworth KL (2016) The severity of sediment desiccation affects the adsorption characteristics and specification of phosphorus. *Environmental Science Processes & Impacts*. **18**, 64-71. DOI: 10.1039/c5em00523j
- Baumgartner L (2016) Adaptive management in action: using chemical marking to advance fish recovery programs in the Murray-Darling Basin. Editorial. *Marine and Freshwater Research*. 67 i-iii <http://dx.doi.org/10.1071/MF15353>
- Baldwin DS, Colloff MJ, Mitrovic SM, Bond NR, Wolfenden (2016) Restoring dissolved organic carbon subsidies from floodplains to lowland river food webs: a role for environmental flows? *Marine and Freshwater Research* **67** 1387-1399 DOI: <http://dx.doi.org/10.1071/MF15382>
- Crook DA, O'Mahony DJ, Gillanders BM, Munro AR, Sanger AC, Thurstan S, Baumgartner LJ (2016) Contribution of stocked fish to riverine populations of golden perch (*Macquaria ambigua*) in the Murray-Darling Basin, Australia. *Marine and Freshwater Research*. <http://dx.doi.org/10.1071/MF15037>
- Durant RA, Nielsen DL, Ward KA (2016) Evaluation of *Pseudoraphis spinescens* (Poaceae) seed bank from Barmah Forest floodplain. *Australian Journal of Botany*. **64**, 669-677 <http://dx.doi.org/10.1071/BT15288>
- Forbes J, Watts RJ, Robinson WA, Baumgartner LJ, McGuffie P, Cameron LM, Crook DA (2016) Assessment of sticking effectiveness for Murray cod (*Maccullochella peelii*) and golden perch (*Macquaria ambigua*) in rivers and impoundments of south-eastern Australia. *Marine and Freshwater Research* **67**, 1410-1419 <http://dx.doi.org/10.1071/MF15230>
- Friery RF, Esuinatti FM, Stenert C, Arenzo A, Nielsen DL, Maltchik L (2016) Effects of spatial scale and habitat on the diversity of diapausing wetland invertebrates. *Aquatic Biology* **25**: 173-181 doi: 10.3354/ab00666
- Harris JH, Kingsford RT, Peirson W, Baumgartner L (June 2016) Mitigating the effects of barriers to freshwater fish migrations: the Australian experience. *Marine and Freshwater Research* <http://dx.doi.org/10.1071/MF15284>
- Harris CW, Silvester E, Rees GN, Pengelly J, Puskar L (2016) Proteins are a major component of dissolved organic nitrogen (DON) leached from terrestrially aged *Eucalyptus camaldulensis* leaves. Supplementary material. *Environmental Chemistry* **13**, 877-887 doi:10.1071/EN16005_AC
- Hermoso V, Kennard MJ, Schmidt DJ, Bond N, Huey JA, Mon dol RK, Jamandre BW, Juhes JM (2016) Species distributions represent intraspecific genetic diversity of freshwater fish in conservation assessments. *Freshwater Biology*. **61**: 1707-1719 doi:10.1111/fwb.12810
- Karis T, Silvester E, Rees G (2016) Chemical regulation of alpine headwater streams during a storm event (Bogong High Plains, Victoria, Australia) *Journal of Hydrology* **542**: 317-329 <http://doi.org/10.1016/j.jhydrol.2016.09.014>
- Marshall JC, Menke N, Crook DA, Lobegeiger JS, Balcombe SR, Huey JA, Fawcett JH, Bond NR, Starkey AH, Sternberg D, Linke S, Arthington AH (2016) Go with the flow: the movement behaviour of fish from isolated waterhole refugia during connecting flow events in an intermittent dryland river. *Freshwater Biology* **61** 1242-1258. DOI 10.1111/fwb.12707
- McInerney PJ, Rees GN, Gawne B, Suter P (2016) Implications of riparian willow invasion to instream community structure and function: a synthesis using causal criteria analysis. *Biological Invasions* **18**: 2377-2390 DOI 10.1007/s10530-016-1169-3
- McInerney PJ, Rees GN, Gawne B, Suter P (2016) Invasive *Salix fragilis*: altered metabolic patterns in Australian streams. *Hydrobiologia*. **767**: 267-277 SEP DOI 10.1007/s10750-015-2507-7
- McInerney PJ, Rees GN, Gawne B, Suter P, Watson G, Stoffels RJ (2016) Invasive willows drive instream community structure. *Freshwater Biology*. **61**, 1379-1391 DOI:10.1111/fwb.12778
- Mitrovic SM, Baldwin DS (2016) Allochthonous dissolved organic carbon river, lake and coastal systems: transport, function and ecological role. (2016) Special Issue *Marine and Freshwater Research*. Editorial 67 i-iv http://dx.doi.org/10.1071/MFv67n9_ED
- Nielsen DL, Cook RA, Ning N, Gawne B, Petrie R (2016) Carbon and nutrient subsidies to a lowland river following floodplain inundation. *Marine and Freshwater Research*. **67**, 1302-1312 <http://dx.doi.org/10.1071/MF14390>
- Paul WL, Rokahr PA, Webb JM, Rees GN, Clune TS (2016) Causal modelling applied to the risk assessment of a wastewater discharge. *Environmental Monitoring Assessment*. **188**:131-151 DOI: 10.1007/s10661-015-5074-5
- Rohlf AM, Mitrovic SM, Williams S, Hitchcock JN, Rees GN (2016) Dissolved organic carbon delivery from managed flow releases in a montane snowmelt river. *Aquatic Sciences* **78**: 793-807 DOI 10.1007/s00027-016-0472-5
- Shackleton M, Rees GN (2016) DNA Bar coding Australian macroinvertebrates for monitoring programs: benefits and current short comings. *Marine and Freshwater Research* **67**, 380-390 DOI: <http://dx.doi.org/10.1071/MF14331>

- Stoffels RJ, Rehwinkel RA, Price AE, Fagan WF (2016) Dynamics of fish dispersal during river-floodplain connectivity and its implications for community assembly. *Aquatic Sciences*. **78**: 355-365 DOI 10.1007/s00027-015-0437-0
- Stoffels RJ, Richardson AJ, Vogel MT, Coates SP, Muller WJ (2016) What do metabolic rates tell us about thermal niches? Mechanisms driving crayfish distributions along an altitudinal gradient. *Oecologia*. **180**: 45-54 DOI 10.1007/s00442-015-3463-7
- Swirepik JL, Burns IC, Dyer FJ, Neave IA, O'Brien MG, Pryde GM, Thompson RM (2016) Establishing environmental water requirements for the Murray-Darling Basin, Australia's largest developed river system. *River Research and Applications* **32**: 1153-1165 DOI: 10.1002/rra.2975
- Zhou X, Frandsen PB, Holzenthal RW, Beet CR, Bennett KR, Blahnik RJ, Bonada N, Cartwright D, Chuluunbat S, Cockc GV, Collins GE, deWard J, Dean J, Flint Jr OS, Hausmann A, Hendricj L, Hess M, Hogg ID, Kondratieff BC, Malicky H, Milton MA, Moriniere J, Morse JC, Mwangi FN, Pauls SU, Gonzalez MR, Rinne A, Robinson JL, Salokannel J, Shackleton M, Smith B, Stamatakis A, St Clair R, Thomas JA, Zamora-Munoz C, Ziesmann T, Kjer KM (2016) The Trichoptera barcode initiative: a strategy for generating a species-level Tree of Life. *Philosophical Transactions Royal Society B*. **371**: 201660025 <http://dx.doi.org/10.1098/rstb.2016.0025>

Refereed Journal Articles (in press)

- Freestone FL, Brown P, Campbell CJ, Wood DB, Nielsen DL, Henderson MW (Dec16) Return of the lignum dead: Resilience of an arid floodplain shrub to drought. *Journal of Arid Environments* <http://dx.doi.org/10.1016/j.jaridenv.2016.11.011>
- Harris JH, Kingsford RT, Peirson W, Baumgartner L (June 2016) Mitigating the effects of barriers to freshwater fish migrations: the Australian experience. *Marine and Freshwater Research* <http://dx.doi.org/10.1071/MF15284>
- McCull KA, Sunarto A, Slater J, Bell K, Asmus M, Fulton W, Brown P, Gilligan D, Hoad J, Williams LM, Crane MJ (Dec 2016) Cyprinid herpesvirus 3 as a potential biological control agent for carp (*Cyprinus carpio*) in Australia: susceptibility of non-target species. *Journal of Fish Diseases*. DOI: 10.1111/jfd.12591
- Portinho JL, Nielsen DL, Ning N, Paul W, Nogueira M (Dec 16) Spatial variability of aquatic plant and microfaunal seed and egg bank communities within a forested floodplain system of a temperate Australian river. *Aquatic Sciences* DOI: 10.1007/s00027-016-0514-z

Book Chapters

- Bond N (2016) Environmental Flows: Environmental Watering. Pages 1-4 in E. Editors: Finlayson M, Everard M, Irvine K, McInnes RJ, Middleton BA, can Dam AA, Davidson NC. *The Wetland Book: I: Structure and Function, Management and Methods*. Springer Netherlands, Dordrecht. https://doi.org/10.1007/978-94-007-6172-8_350-1
- Baldwin DS (2016) Microbially-mediated Chemical Transformations in Wetlands Pages 1-12 in M. Editors: Finlayson M, Everard M, Irvine K, McInnes RJ, Middleton BA, can Dam AA, Davidson NC. *The Wetland Book: I: Structure and Function, Management and Methods*. Springer Netherlands, Dordrecht. https://link.springer.com/referenceworkentry/10.1007/978-94-007-6172-8_65-1

Scientific, Technical and Consultancy Reports

- Baldwin D (2016) The potential impacts of climate change on water quality in the southern Murray–Darling Basin. Final Report prepared for the Murray–Darling basin Authority by The Murray–Darling Freshwater Research Centre, MDFRC Publication 139/2015, December, 59pp
- Baldwin DS (2016) Review of phosphorus and nitrogen loads in West Wodonga Waste Water Treatment Plant discharge and the risk to the Murray River system. Final report to North East Water prepared by The Murray–Darling Freshwater Research Centre, MDFRC publication 135/2016, November, 11 pp
- Bogenhuber B, Della-Sale A, Rigney G (2016) Cultural Science in Management of Ramsar sites. Final Report prepared for the name of client by The Murray–Darling Freshwater Research Centre, MDFRC Publication 100/2016, January, 28pp
- Brooks S (2016) 2014-15 Basin-scale evaluation of Commonwealth environmental water – Ecosystem Diversity. Final Report prepared for the Commonwealth Environmental Water Office by The Murray–Darling Freshwater Research Centre, MDFRC Publication 106/2016, May, 50pp
- Brown P, Henderson M, Freestone F, Campbell C (2015) The Living Murray condition monitoring refinement project report updates for the Lindsay–Mulcra–Wallpolla Islands and Hattah Lakes icon sites 2014–15. Final report prepared for the Mallee Catchment Management Authority by The Murray–Darling Freshwater Research Centre, MDFRC Publication 84/2015, June, 34pp
- Brown P, Freestone F, Lampard B, Wood D, Huntley S, Campbell C (2016) The Living Murray condition monitoring at Hattah Lakes 2015–16; Part B – supplementary material. Final report prepared for the Mallee Catchment Management Authority by The Murray–Darling Freshwater Research Centre, MDFRC Publication 97/2016, June, 87 pp
- Brown P, Freestone F, Lampard B, Wood D, Huntley S, Campbell C (2016) The Living Murray condition monitoring at Lindsay, Mulcra and Wallpolla Islands 2015–16; Part B – supplementary material. Final report prepared for the Mallee Catchment Management Authority by The Murray–Darling Freshwater Research Centre, MDFRC Publication 98/2016, June, 110 pp
- Brown P, Freestone F, Huntley S, Campbell C, Wood D (2016) The Living Murray Condition Monitoring Refinements for the Icon Sites at Lindsay–Mulcra–Wallpolla Islands and the Hattah Lakes: Part-2. Final Report prepared for the Mallee Catchment Management Authority by The Murray–Darling Freshwater Research Centre, MDFRC Publication 126/2016, August, 43pp

- Busuttill R, Bond N (2016) The Murray-Darling Freshwater Research Centre Annual Report 2015. Draft Report prepared by The Murray-Darling Freshwater Research Centre, MDFRC Publication 131/2016, September, 57pp
- Capon S, Campbell C (2016) 2014–15 Basin-scale evaluation of Commonwealth environmental water — Vegetation Diversity Report. Final Report prepared for the Commonwealth Environmental Water Office by The Murray–Darling Freshwater Research Centre, MDFRC Publication 107/2016, June, 84 pp
- Durant R, Wilson J, Campbell C, Capon S, James C, Morris K, Nicol J, Nielsen D, Thomas R (2016) Recruitment of long-lived floodplain vegetation: Mesocosm study experimental design. Final Report prepared for the Department of the Environment and Energy by The Murray–Darling Freshwater Research Centre, MDFRC Publication 132/2016, September, 28pp
- Durant R, Freestone F, Linklater D, Reid C, Campbell C (2016) Recruitment of long-lived floodplain vegetation: Literature review. Final Report prepared for the Department of Environment and Energy by The Murray–Darling Freshwater Research Centre, MDFRC Publication 136/2016, November, 32pp
- Gawne B, Everingham P, Busuttill R, Williams M, Stoffels R, Capon S, Stewardson M, Grace M and Brooks S (2016) Long Term Monitoring Project Annual Forum: Outcomes 2016. Report prepared for the Commonwealth Environmental Water Office by The Murray–Darling Freshwater Research Centre, MDFRC Publication 127/2016, August, 32pp
- Gawne B, Hale J, Brooks S, Campbell C, Capon S, Everingham P, Grace M, Guarino F, Stoffels R, Stewardson M (2016) 2014–15 Basin-scale evaluation of Commonwealth environmental water — Synthesis Report. Final report prepared for the Commonwealth Environmental Water Office by The Murray–Darling Freshwater Research Centre, MDFRC Publication 103/2016, November, 40pp
- Gawne B, Roots J, Hale J, Stewardson M (2014) Commonwealth Environmental Water Office Long– Term Intervention Monitoring Project Basin Evaluation Plan. Report prepared for the Commonwealth Environmental Water Office by the Murray–Darling Freshwater Research Centre, MDFRC Publication 42/2014, December, 55pp
- Grace M (2016) 2014–15 Basin-scale evaluation of Commonwealth environmental water — Stream Metabolism and Water Quality. Final Report prepared for the Commonwealth Environmental Water Office by The Murray–Darling Freshwater Research Centre, MDFRC Publication 105/2016, October, 39pp
- Hale J (2016) 2014-15 Basin-scale evaluation of Commonwealth environmental water - Generic Diversity. Final Report prepared for the Commonwealth Environmental Water Office by The Murray–Darling Freshwater Research Centre, MDFRC Publication 109/2016, October, 48pp
- Huntley S, Brown P (2016) User Guide to PIT Tagging Fish at Lock 10. Draft Report prepared for the Murray–Darling Basin Authority by The Murray-Darling Freshwater Research Centre, MDFRC Publication 112/2016, June, 7pp
- Huntley S, Brown P (2016) Surrogate Refuge Site Investigation and Extended Occurrence Surveys for Murray Hardyhead Recovery in Victoria. Final Report prepared for the Department of Environment, Land, Water and Planning by The Murray–Darling Freshwater Research Centre, MDFRC Publication 96/2016, May, 26pp
- Huntley S (2016) Monitoring of Murray hardyhead populations and potential translocation sites in the Victorian Mallee, 2015–16. Final Report prepared for the Mallee Catchment Management Authority by The Murray–Darling Freshwater Research Centre, MDFRC Publication 110/2016, May, 33 pp
- Huntley S, Freestone F, Wood D, Brown P, Campbell C and Lampard B (2016) The Living Murray Condition Monitoring at Lindsay, Mulcra and Wallpolla Islands 2015–16; Part A – Main Report. Final Report prepared for the Mallee Catchment Management Authority by The Murray–Darling Freshwater Research Centre, MDFRC Publication 119/2016, June, 103 pp
- McInerney P, Davey C (2016) River Murray Biological Monitoring Project Annual Report 2015. Draft report prepared for the Murray–Darling Basin Authority by The Murray–Darling Freshwater Research Centre, MDFRC Publication 125/2016, August, 74 pp
- MDFRC (2014) Murray–Darling Basin Environmental Water Knowledge and Research Project: Decision Support Tool Strategy. Final Report prepared for the Department of the Environment by The Murray–Darling Freshwater Research Centre, MDFRC Publication 60/2014, May 2015, 14pp (finalised October 2016)
- MDFRC (2016) Murray–Darling Basin Environmental Knowledge and Research Project: Annual Progress Report July 2015 – June 2016. Final Report prepared for the Department of the Environment and Energy by The Murray–Darling Freshwater Research Centre, MDFRC Publication 128/2016, August, 95pp
- MDFRC (2016) Murray–Darling Basin Environmental Water Knowledge and Research Project: Multi–year Research Plan 2016-2019. Report prepared for the Department of the Environment by The Murray–Darling Freshwater Research Centre, MDFRC Publication 129/2016, June, 118 pp
- MDFRC (2016) Murray–Darling Basin Environmental Water Knowledge and Research Project: Annual Research Plan 2016–17. Final Report prepared for the Department of the Environment by The Murray–Darling Freshwater Research Centre, MDFRC Publication 121/2016, June 2016, 48pp
- MDFRC (2016) Murray–Darling Basin Environmental Water Knowledge and Research Project: Communications and Adoption Strategy. Draft Report prepared for the Department of Environment and Energy by The Murray–Darling Freshwater Research Centre, MDFRC Publication 134, October, 45pp
- Murray–Darling Freshwater Research Centre (2016) Murray Darling Basin Environmental Knowledge and Research Project: Mid-Year Progress Report: July 2015 - December 2015. Final Report prepared for the Department of Environment by The Murray–Darling Freshwater Research Centre, MDFRC Publication 101/2016, February 2016.

- Mynott JH (2016) Surveying the threatened species *Thaumatoperla alpina* across the Bogong High Plains. Final Report prepared for the Department of Land, Water and Planning by The Murray–Darling Freshwater Research Centre, MDFRC Publication 117/2016, June, 29pp
- Mynott JH (2016) Surveying the threatened species *Thaumatoperla flaveola* across the Mount Buller–Mount Stirling massif. Final Report prepared for the Department of Land, Water and Planning by The Murray–Darling Freshwater Research Centre, MDFRC Publication 122/2016, July, 26pp
- Nielsen D, Baldwin D, Bond N, Brown P, McInerney P, Rees G, Shackleton M (2016) The MDBA–MDFRC Collaboration Project Annual Report 2015–2016. Report prepared for the Murray–Darling Basin Authority, La Trobe University and CSIRO by The Murray–Darling Freshwater Research Centre, MDFRC Publication 120/2016, July, 3pp
- D Nielsen, G Rees, P Brown, D Baldwin, Rick Stoffels, Ben Gawne and Nick Bond, (2016) The MDBA–MDFRC Collaboration Project – stocktake report. Final Report prepared for the Murray–Darling Basin Authority, MDFRC Publication 137/2016, November, 52 pp.
- Petrie R (2016) Zooplankton in Lake Elizabeth, Round Lake and Woorinen North Lake, winter 2016: identifying food resource availability for Murray Hardyhead. Final Report prepared for the Department of Environment, Land, Water and Planning by The Murray–Darling Freshwater Research Centre, MDFRC Publication 111/2016, May, 7pp
- Price AE, Stoffels RJ, Weatherman KA, O’Keefe R, Müller W (2016) Structural Habitat Selection by Southern Pygmy Perch (*Nannoperca australis*). Final Report prepared for Murray Local Land Services by The Murray–Darling Freshwater Research Centre, MDFRC Publication 102/2016, May, 26pp
- Rees GN (2016) Literature review of stressors in the Wangaratta Trade Waste Treatment Plant discharge. Final Report prepared for North East Water by The Murray–Darling Freshwater Research Centre, MDFRC Publication 133/2016, November, 23pp.
- Stewardson MJ, Guarino F (2016) 2014–15 Basin-scale evaluation of Commonwealth environmental water — Hydrology. Final Report prepared for the Commonwealth Environmental Water Office by The Murray–Darling Freshwater Research Centre, MDFRC Publication 104/2016, November, 50pp
- Stoffels RJ, Weatherman KA (2015) Will heat and hypoxia in floodplain wetlands give alien mosquitofish (*Gambusia holbrooki*) the edge over endemic pygmy perch (*Nannoperca australis*)? Final Report prepared for the Goulburn-Broken Catchment Management Authority by The Murray–Darling Freshwater Research Centre, MDFRC Publication 94/2015, August, 22pp
- Stoffels R, Bond N, Nicol S (2016) Science to support the management of riverine flows. Final Report prepared for the Murray–Darling Basin Authority by The Murray–Darling Freshwater Research Centre, MDFRC Publication 138/2016, December, 21pp
- Stoffels RJ, Bond NR, Weatherman K, Gawne B (2016) 2014–15 Basin-scale evaluation of Commonwealth environmental water — Fish. Final Report prepared for the Commonwealth Environmental Water Office by The Murray–Darling Freshwater Research Centre, MDFRC Publication 108/2016, November, 56pp
- Wood D, Brown P (2016) Lateral fish movement at the Hattah Lakes icon site. Final Report prepared for the Mallee Catchment Management Authority by The Murray–Darling Freshwater Research Centre, MDFRC Publication 95/2016, March, 38pp
- Wood D, Freestone F, Brown P, Campbell C, Huntley S (2016) The Living Murray condition monitoring at Hattah Lakes 2015–16 Part A – Main Report. Final Report prepared for the Mallee Catchment Management Authority by The Murray–Darling Freshwater Research Centre, MDFRC Publication 118/2016, July, 110 pp

Thesis

- Attygalla W N (2016) Nutrient Dynamics in floodplain wetland soils and sediments. Doctor of Philosophy Thesis. Department of Environment Management and Ecology School of Life Sciences. 196pp. November 2014
- Klein A (2016) The role of cyanobacteria toxin, microcystin, in aqueous iron biochemistry. Doctor of Philosophy Thesis. Department of Ecology, Environment and Evolution, School of Life Sciences, The Murray–Darling Freshwater Research Centre. 242pp. May 2016
- Littler R (2016) Deposition of seeds within riverine corridors. Honours final thesis. La Trobe University Dept. of Ecology, Environment and Evolution. 54pp
- Dessent J (2016) The influence of sediment temperature on seed germination of four semi-aquatic plants. Honours final thesis. La Trobe University Dept. of Ecology, Environment and Evolution. 29pp
- Wray R (2016) Invasion of Australia by the freshwater snail *Physa acuta* (*Physidae*): mitochondrial and nuclear gene analysis reveals multiple introductions from various source populations. Honours final thesis. La Trobe University Dept. of Ecology, Environment and Evolution. 60pp
- McInerney P (2016) Effects of invasive willows (*Salix spp.*) on stream ecosystem dynamics. Doctor of Philosophy Thesis. Department of Ecology, Environment and Evolution, School of Life Sciences, The Murray–Darling Freshwater Research Centre. 183pp. December 2016

Summer Cadetship Student Reports

- Kidziak S (2016) Gene flow in four macroinvertebrate species in the Murray River: investigating correlations between range size, dispersal method and dispersal ability. Draft Report prepared for a Summer Cadetship Project by The Murray–Darling Freshwater Research Centre, MDFRC Publication 99/2016, February, 23pp.
- O’Keefe R (2016) Habitat selection by the Southern Pygmy Perch in the presence or absence of Redfin Perch. Final Report prepared for a Summer Cadetship Project by The Murray–Darling Freshwater Research Centre, MDFRC Publication, February, 27pp.

Conference / Poster Presentations

- Baldwin DS, Bond N, Lester R, Robson B, Ryder D, Rolls R, Thompson R (2016) Linking riverine flows and food webs: MDB EWKR Food Web theme. The Australian Society for Limnology Conference 2016, Ballarat Victoria 26–30 September

- Bond N, Arthington A, Balcombe S, Crook D, Marshall J, Lobegeiger J, Menke N (2016) Modelling population persistence in intermittent rivers. Society for Freshwater Science (SFS) Annual Meeting. Sacramento, California, USA. 21-26 May
- Campbell C, Capon S (2016) Vegetation outcomes of Commonwealth Environmental Watering actions across the Murray-Darling Basin: consideration of scale and level of organisation. The Australian Society for Limnology Conference 2016, Ballarat Victoria 26-30 September
- Campbell CJ, Capon S, James C, Morris K, Nicol J, Nielsen D, Thomas R (2016) Vegetation outcomes: what are we seeking and why? The Australian Society for Limnology Conference 2016, Ballarat Victoria 26-30 September
- Dessent JE (2016) The effect of temperature on germination and variability of four semi-aquatic plant species. The Australian Society for Limnology Conference 2016, Ballarat Victoria 26-30 September.
- Durant RA, Nielsen DL, Ward KA (2016) Evaluation of Moira Grass seed bank from Barmah Forest floodplain. The Australian Society for Limnology Conference 2016, Ballarat Victoria 26-30 September
- Freestone FL, Brown P, Campbell CJ, Wood DB, Nielsen DL, Henderson MW (2016) Return of the lignum dead: resilience of an arid floodplain shrub to drought. The Australian Society for Limnology Conference 2016, Ballarat Victoria 26-30 September
- Gawne B et al (2016) Evaluating Basin-scale significance of area scale outcomes of environmental flows. The Australian Society for Limnology Conference 2016, Ballarat Victoria 26-30 September
- Gawne B, Lester R, Pollino C (2016) Improving our capacity to predict ecosystem responses to environmental flows. The Australian Society for Limnology Conference 2016, Ballarat Victoria 26-30 September
- Harris CW, Silvester E, Rees GN, Pengelly J, Puskar L (2016) Proteins are a major component of dissolved organic nitrogen (DON) leached from terrestrially aged *Eucalyptus camaldulensis* leaves. 26th International Goldschmidt Conference. Yokohama, Japan. 26 June – 1 July
- Humphries P, McCasker N, Kopf RK, King A, Zampatti B, Stoffels R, Price A (2016) A conceptual synthesis of flow-recruitment relationships for riverine fishes
- Karis T, Silvester E, Rees GN (2016) Chemical regulation of alpine headwater streams during a storm event. 26th International Goldschmidt Conference. Yokohama, Japan. 26 June – 1 July
- Klein AR, Baldwin DS, Silvester E (2016) Biotic acquisition of iron: A role for catalytic reduction of Fe (III) minerals by Fe (II). 26th International Goldschmidt Conference. Yokohama, Japan. 26 June – 1 July
- Littler R (2016) Depositional zones for seeds within river channels. The Australian Society for Limnology Conference 2016, Ballarat Victoria 26-30 September
- McInerney PJ, Rees GN, Gawne B, Suter P, Watson G, Stoffels RJ (2016) Invasive willows drive instream community structure. The Australian Society for Limnology Conference 2016, Ballarat Victoria 26-30 September
- Mynott J (2016) Saving Alpine and Mt Stirling Stoneflies. Sharing Our Threatened Species Stories, Department of Environment, Land, Water and Planning, Wodonga Victoria. 13 October.
- O'Dwyer J (2017) the impact of habitat stability and instability on stress tolerance in populations of *Coxiella striata* in Western Victorian Salt lakes. Honours Introductory Seminar. La Trobe University, Bundoora Victoria. 10 March
- Shackleton M (2016) Diversity of water bug fauna in Winton Wetlands. Friends of Winton Wetlands "it's a bugs life" water Bug Discovery Evening. Winton North Victoria. 9 December
- Stoffels R (2016) Evaluating the population-dynamic consequences of fishes to flow within LTIM. The Australian Society for Limnology Conference 2016, Ballarat Victoria 26-30 September

Lectures / Courses

- Baldwin D (2016) Water Quality. Lecture for 3rd year River and Floodplain ecology students. Charles Sturt University, Thurgoona, NSW. April
- Baldwin D (2016) Water Quality. Floodplain Ecology Course. Moama Victoria. 10-14 October
- Baldwin D (2016) Rethinking Floodplains. Floodplain Ecology Course. Moama Victoria. 10-14 October
- Baldwin D (2016) Why we measure leaves on floodplains. Floodplain Ecology Course. Moama Victoria. 10-14 October
- Baldwin D (2016) A practical demonstration of water and sediment sampling. Floodplain Ecology Course. Moama Victoria. 10-14 October
- Durant R (2016) Aquatic Plants. Lecture for 3rd year River and Floodplain ecology students. Charles Sturt University, Thurgoona, NSW. 4 April
- Nielsen D (2016) Vegetation dispersal. Floodplain Ecology Course. Moama Victoria. 10-14 October
- Nielsen D (2016) Ecology of wetland riverine microfauna. Lecture for 3rd year River and Floodplain ecology students. Charles Sturt University, Thurgoona, NSW. 14 March

Seminar and Other Presentations

- Baldwin d (2016) Monitoring discussion – carbon / connectivity. The Living Murray Icon Site Managers (ISM) and Environmental Watering Group (EWG) Forum. Mallee Catchment Management Authority, Mildura Victoria. 4-5 May
- Baldwin DS (2016) Climate Change and Water Quality in the Southern MDB. MDFRC Investment Committee, Murray–Darling Basin Authority, Canberra. 11 May
- Baldwin D (2016) Opportunities to improve connectivity and mobilise carbon. NSW Office of Environment & Heritage Long Term Watering Plan for the Murray–Lower Darling. Interagency Consultation Group. Lake Hume Resort, NSW. 1-2 June
- Baldwin D (2016) Drivers of blue-green algal blooms in Lake Hume. Presentation at Prediction of Harmful Algal Blooms. CSIRO Land and Water, Canberra ACT. 24 June

- Baldwin D (2016) River Regulation Drought and Water Quality. Lecture to International Course on River Management, La Trobe University, Wodonga Victoria. 30 June
- Baldwin D (2016) Blue-Green algal blooms in Lake Hume. MDBA Water Quality Advisory Panel meeting. Sydney NSW 21 July
- Baldwin D (2016) Carbon and e-flows. Southern Connected Basin Flow Scenarios. NSW Office of Environment & Heritage workshop. Deniliquin NSW. 11 October
- Bond N (2016) Condition monitoring and environmental flows planning in the Murray–Darling Basin. Lecture to International Course on River Management, La Trobe University, Wodonga Victoria. 30 June
- Bond N (2016) The Murray–Darling Freshwater Research Centre. Presentation to LTU University Council. La Trobe University, Wodonga Victoria. 19 April
- Bond N (2016) The evolving science of environmental flows. Ecology, Environment Evolution (EEE) Seminar Series. La Trobe University, Wodonga Victoria. 14 September
- Brown P (2016) Fish Movement. MDFRC Investment Committee, Murray–Darling Basin Authority, Canberra. 11 May
- Campbell C (2016) Vegetation responses at Hattah and LMW through droughts, flooding rains and environmental water. The Living Murray Icon Site Managers (ISM) and Environmental Watering Group (EWG) Forum. Mallee Catchment Management Authority, Mildura Victoria. 4-5 May
- Dessent J (2016) The effect of temperature on germination and viability of wetland seeds. EEE Honours seminar, La Trobe University Wodonga Victoria. 22 March
- Dessent J (2016) The effect of temperature on germination of four semi-aquatic plant species. Final Honours Seminar. Department of Ecology, Environment & Evolution Introductory Seminar, La Trobe University, Wodonga Victoria. 20 September
- Littler R (2016) Deposition of seed along riverine corridors. EEE Honours seminar, La Trobe University Wodonga Victoria. 22 March
- Littler R (2016) Depositional zones for seeds within river channels. Final Honours Seminar. Department of Ecology, Environment & Evolution Introductory Seminar, La Trobe University, Wodonga Victoria. 20 September
- Kidziak S (2016) Can DNA Sequencing determine prey items of macroinvertebrates. Department of Ecology, Environment & Evolution Introductory Seminar, La Trobe University, Wodonga Victoria. 26 August
- Mynott J (2016) Saving Alpine and Mt Stirling Stoneflies. Sharing Our Threatened Species Stories, Department of Environment, Land, Water and Planning, Wodonga Victoria. 13 October
- McInerney P (2016) Understanding the ecological consequences of macroinvertebrate community-structure change. MDFRC Investment Committee, Murray–Darling Basin Authority, Canberra. 11 May
- McInerney P (2016) River Biological Monitoring Program. MDBA Water Quality Advisory Panel meeting. Sydney NSW 21 July
- Nielsen D (2016) The benefits of returning floodwaters. Southern Connected Basin Flow Scenarios. NSW Office of Environment & Heritage workshop. Deniliquin NSW. 11 October
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P: +61 2 6024 9650 | PO Box 821, Wodonga 3689 | 133 McKoy Street, Wodonga 3690

P: +61 3 5051 4050 | PO Box 4095, Mildura Vic 3502 | 471 Benetook Avenue, Mildura 3500

W: www.mdfrc.org.au

