

### QUALIFICATIONS

B.Sc. (Hons) Zoology/Chemistry, University of Otago, 1992

Ph.D. Zoology, University of Otago, 1998

### PROFESSIONAL AFFILIATIONS

[NZ Freshwater Sciences Society](#) (Executive Committee)

[North American Benthological Society](#)



### ROLE AT CAWTHRON

Roger is a freshwater ecologist in the Coastal and Freshwater Resources group and responsible for a variety of research and commercial projects in the freshwater ecosystems area. Roger's main areas of expertise are river ecology, ecosystem health, water quality, freshwater fisheries and integrated catchment management. Roger strongly believes in the need for integrated approaches to resource management and enjoys his involvement in interdisciplinary teams working with the community to resolve resource management issues.

### SPECIAL INTERESTS

- Development of innovative tools for measuring river ecosystem health using direct measurements of ecosystem processes/functions. Roger has been working with MfE and councils throughout NZ on a framework for the use of these functional indicators.

### SELECTED PUBLICATIONS

- Young, R.G. 2006: Functional indicators of river ecosystem health – results from regional case studies of leaf decomposition. Prepared for Ministry for the Environment. Cawthron Report No. 1054. 35 p.
- Young, R. G.; Quarterman, A. J.; Eyles, R. F.; Smith, R. A.; Bowden, W. B 2005: Water quality and thermal regime of the Motueka River: influences of land cover, geology and position in the catchment. *New Zealand Journal of Marine and Freshwater Research* 39: 803-825.
- Young, R.G.; James, T.; Hay J. 2005: State of Surface Water Quality in the Tasman District. Prepared for Tasman District Council. Cawthron Report No. 933. 69 p.
- Young, R.G.; Jowett, I.G. 2005: Observations and modelling of seston transport in the Waitaki River downstream of the Waitaki Dam. Prepared for Meridian Energy Limited. Cawthron Report No. 1030. 15 p.
- Young, R.G.; Crowe, A.L.M.; Thelin, H. 2005: Review of Marlborough District

Council's surface water quality monitoring programme. Prepared for Marlborough District Council. Cawthron Report No. 1001. 35 p.

- Young, R. G.; Keeley, N. B.; Shearer, K. A.; Crowe, A. L. M. 2004: Impacts of diquat herbicide and mechanical excavation on spring fed drains in Marlborough. *Science for Conservation* 240. Department of Conservation, Wellington. 50 p.
- Young, R.G.; Townsend, C.R.; Matthaei, C.D. 2004: Functional indicators of river ecosystem health - an interim guide for use in New Zealand. Prepared for Ministry for the Environment. Cawthron Report No. 870. 54 p.
- Davies-Colley, R. J.; Nagels, J. W.; Smith, R. A.; Young, R. G.; Phillips, C. J. 2004: Water quality impact of a dairy cow herd crossing a stream. *New Zealand Journal of Marine and Freshwater Research* 38: 569-576.
- Young, R.G.; Smart, G.M.; Harding, J.S. 2004: Impacts of hydro-dams, irrigation schemes and river control works. Pp. 37.1-37.16. In Harding, J.S.; Mosely, M.P.; Pearson, C; Sorrell, B. (eds.) *Freshwaters of New Zealand*. New Zealand Hydrological Society and New Zealand Limnological Society.
- Young, R. G.; Hayes, J. W. 2004: Angling pressure and trout catchability: behavioral observations of brown trout in two New Zealand backcountry rivers. *North American Journal of Fisheries Management* 24: 1203-1213.
- Huryn, A. D.; Riley, R. H.; Young, R. G.; Peacock, K.; Arbuckle, C. J. 2002: Natural-abundance stable C and N isotopes indicate weak upstream-downstream linkage of food webs in a grassland river. *Archiv für Hydrobiologie* 153: 177-196.
- Young, R. G.; Hayes, J. W. 2001: Assessing the accuracy of drift dive estimates of brown trout (*Salmo trutta*) abundance in two New Zealand rivers: a mark-resighting study. *New Zealand Journal of Marine and Freshwater Research* 35: 269-275.
- Young, R. G.; Huryn, A. D. 1999: Effects of land-use on stream metabolism and organic matter turnover. *Ecological Applications* 9: 1359-1376.