

QUALIFICATIONS

Ph.D. Biology, Victoria University, 2005

PROFESSIONAL AFFILIATIONS

MoRST Oxygen Group
(<http://www.morst.govt.nz/current-work/oxygen-group/>)
New Zealand Freshwater Sciences Society

ROLE AT CAWTHRON

Susie's areas of expertise include:

- Phytoplankton systematics, taxonomy, ecology and physiology
- Micro-algae/cyanobacteria isolation and culturing
- Biotoxin analysis analytical and monitoring methodologies
- Effects of biotoxins on aquatic ecosystems
- Molecular techniques for detecting and enumerating microorganisms
- Development of molecular detection techniques for detection of marine bioinvasives
- Microbial ecosystems in Antarctic freshwater systems
- Tetrodotoxin

SPECIAL INTERESTS & ACHIEVEMENTS

Associated Editor of *Inland Waters* (Journal of the International Society of Limnology)

2007-Member of the Ministry of Research, Science and Technology "Oxygen Group"

2006-09 Foundation of Science Research and Technology Post-Doctoral Fellowship

SELECTED PUBLICATIONS

Wood SA, Dietrich DR 2011. Quantitative assessment of aerosolized cyanobacterial toxins at two New Zealand lakes. *Journal of Environmental Monitoring*. DOI:10.1039/C1EM10102A.

Heath M, **Wood SA**, Ryan K 2011. Spatial and temporal variability in *Phormidium* sp. abundance and toxin production in the Hutt River, New Zealand. *Aquatic Environmental Microbiology*. In Press

Smith, F, **Wood, S.A.**, Ginkel, R.v., Broady, P. Gaw, S. 2011. First report of saxitoxin production by a species of the freshwater benthic cyanobacterium, *Scytonema* Agardh. *Toxicon*. 57: 566–573.

Wood S.A., P.T. Holland, MacKenzie, L.A. 2011. Development of Solid Phase Adsorption Toxin Tracking (SPATT) for monitoring anatoxin-a and homoanatoxin-a in river water. *Chemosphere*. 82: 888-894.

Wood SA, Heath M, Kuhajek J, Ryan K 2010. Fine scale spatial variability of anatoxin-a and homoanatoxin-a production in benthic cyanobacteria; implication for monitoring and management. *Journal of Applied Microbial Ecology*. 109 (6): 2011–2018.

Wood SA, Rueckert A, Cary SC, Hamilton DP, Dietrich DR 2010. Switching toxin production on and off: intermittent microcystin synthesis in a *Microcystis* bloom. *Environmental Microbiology Reports*. 3 (1): 118-124.



Webster-Brown J, Gall M, Gibson J, **Wood SA**, Hawes I 2010. The biogeochemistry of meltwater ponds in the Darwin Glacier region (Lat 80°S), Victoria Land. *Antarctic Science*. 22 (6): 646-661.

McNabb P, Selwood AI, Munday R, **Wood SA**, Taylor DI, MacKenzie LAL, Ginkel Rv, Rhodes LL, Cornelisen C, Heasman K, Holland PT, King C 2010. Detection of tetrodotoxin from the grey sided-gilled sea slug - *Pleurobranchaea maculata*, and associated dog neurotoxicosis on beaches adjacent to the Hauraki Gulf, Auckland, New Zealand. *Toxicon*. 56: 466–473.

Wood SA, Prentice MJ, Smith K, Hamilton DP 2010. Low dissolved inorganic nitrogen and increased heterocyte frequency: precursors to *Anabaena planktonica* blooms in a temperate, eutrophic reservoir. *Journal of Plankton Research*. 32 (9): 1315-1325.

Heath M, **Wood SA**, Ryan K 2010. Polyphasic assessment of fresh-water benthic mat forming cyanobacteria isolated from New Zealand. *FEMS Microbiology*. 73: 95-109.

Wood SA, Heath M, McGregor G, Holland PT, Munday R, Ryan K 2010. Identification of a benthic microcystin producing filamentous cyanobacterium (Oscillatoriales) associated with a dog poisoning in New Zealand. *Toxicon*. 55:987-903.

Soo RM, **Wood SA**, Grzymski J, McDonald IR, Cary SC 2009. Microbial biodiversity of thermophilic communities in hot mineral soils of Tramway Ridge, Mt. Erebus, Antarctica. *Environmental Microbiology*. 11: 715-728.

Wood SA, Mountfort D, Selwood AI, Holland PT, Puddick J, Cary SC 2008. Widespread distribution and identification of eight novel of microcystins in Antarctic cyanobacterial mats. *Applied and Environmental Microbiology*. 74:7243-7251

Wood SA, Jentsch K, Rueckert A, Hamilton D, Cary SC 2008. Hindcasting cyanobacterial communities in Lake Okaro with germination experiments and genetic analyses. *FEMS Microbiology Ecology*. 67:252-260.

Wood SA, Rueckert A, Cowan DA, Cary SC 2008. Sources of edaphic cyanobacterial diversity in the Dry Valleys of Eastern Antarctica. *ISME Journal*. 2, 308–320

Rueckert A, **Wood SA**, Cary SC 2007. Development and field assessment of a quantitative PCR for the detection and enumeration of the noxious bloom-former *Anabaena planktonica*. *Limnology and Oceanography: Methods*. 5: 474-483.