

Waterbug Workshop 10 (WBWX)

(an introduction to the taxonomic
identification of freshwater
invertebrates)

1st – 3rd of July 2015

At the Zoology Laboratories Monash
University, Melbourne

Who is the course for ?

Bug-nerds, community volunteers, natural resource managers, prospective and new Honours and PhD students, planning to work on aquatic invertebrates or wanting to acquire new skills, trained professionals in need of a refresher course, environmental health officers, EPA officers, naturalists, and fishermen who would like to find out more about this fascinating group of animals.

Workshop Overview

The workshop is designed to give participants the skills for identifying aquatic macroinvertebrates. Participants will be taken through the common families of aquatic macroinvertebrates from the easiest to the hardest to identify.

Participants are encouraged to bring their own material to identify at the workshop...this will ensure the groups we cover are relevant to them.

We focus on the skills required to use taxonomic keys and laboratory equipment to enable participants to identify a wide range of invertebrate groups. The course material will include info on the ecology of the animals being studied, video footage, colour photographs and detailed schematics. Participants will also be taught how to calculate basic SIGNAL pollution scores.

The latest technology will be utilised to demonstrate the key identification features of each group as they are seen through the microscope. The course will include shortcuts, 'dead giveaways' and 'folklore' material that will make identifying waterbugs that much easier and so much more fun.

The primary text used is "The Waterbug Book" by Gooderham and Tsyrlin.



Workshop Presenters

Your workshop presenters will be John Gooderham, Edward Tsyrlin and Tom Sloane, who each have extensive experience in identifying invertebrates to the lowest taxonomic level and teaching a broad range of audiences.

Comments from previous years:

"Thanks guys for an awesome workshop. Thoroughly enjoyed [it] and met some great 'bug-minded' people from across the country.."

"Great workshop – you guys put personality into what could be a very dull topic. Thanks for sharing your knowledge, skills and anecdotes."

"Thoroughly enjoyable and productive way to learn. Would highly recommend."

"Bloody fantastic. Don't change a thing. Great presenters. Majority practical which is the best. I will be taking pointers for my future training of staff..."

For more details and updates visit:

www.thewaterbug.net

Waterbug Workshop Schedule

Day 1	1 July
9:00	REGISTRATION & MORNING COFFEE
9:30	Introduction to macroinvertebrates, their importance in the freshwater ecosystem and how they can be used as indicators of ecological health. Brief intro to the equipment....
10:30	MORNING TEA
11:00	We will work through the key to the major groups of waterbugs, explaining terminology and how to use a taxonomic key.
12:00	BREAK FOR LUNCH (BBQ?)
1:00	Start sorting the samples into coarse taxonomic groups to ID to family later
3:00	AFTERNOON TEA
3:30	Continue working through the major groups of invertebrates.
4:45	A quick review of what participants have learnt during the day.

Accommodation

People travelling from interstate can stay near Monash University at accommodation available close to the campus.

A range of options exist in and around Clayton, but it is worth checking how close they are on [Google maps](#).

Day 2	2 July
9:00	A recap of Day 1 Stoneflies and Mayflies (Plecoptera & Ephemeroptera).
10:30	MORNING TEA
11:00	True bugs (Hemiptera).
12:00	BREAK FOR LUNCH
1:00	Damselflies and dragonflies (Odonata).
3:00	AFTERNOON TEA
3:30	Shrimps, prawns and sideswimmers (Crustacea).
4:45	A quick review of what participants have learnt during the day.
Day 3	3 July
9:00	A recap of Day 2 Caddisflies (Trichoptera).
10:30	MORNING TEA
11:00	Beetles (Coleoptera).
12:00	BREAK FOR LUNCH
1:00	Beetle larvae (Coleoptera).
3:00	AFTERNOON TEA
3:30	Fly larvae (Diptera).
4:45	A quick review of what participants have learnt and a test to prove it.
Sometime later	Discussions and reflections at "The Nott" (a local watering hole).

Dates and Venue

The workshop will be held from 1st – 3rd of July at the Clayton campus of Monash University – in the Blue Zoology Labs, Building 18, first floor. See the map on the web:

<http://www.monash.edu.au/campuses/clayton>

there is some info on parking here too.

Cost and Registration dead line

The cost is \$550 including GST.

The registration dead line is :

3rd of June 2015

payment should be finalised by the 17th of June 2015, or your place will be offered to someone on the waiting list. (sounds agro ...but it is always a bit rubbish if we have a waiting list and someone is a no-show).

The cost covers morning and afternoon teas, lunch can be bought from the nearby union building.

Payment can be made by direct deposit to:

The Waterbug Company Pty Ltd
BSB: **06 7028**
Acc No: **1026 4469**
Bank: **The Commonwealth Bank**

or money order / cheque made out to:
The Waterbug Company - and mailed to :
John Gooderham, 47 Pottery Road,
Lenah Valley, 7008, TASMANIA.

Contact us and register before you start the payment process, just to make sure you have a place. We have an ABN number (**96 152 292 325**) and are registered to collect GST.

Ordering Equipment and texts

The following text can be purchased for use at the workshop. If you order it with your registration (tick the relevant box), we'll have it available for you at the start of the course. There will be course notes and forceps provided.

The Waterbug Book: a guide to the freshwater macroinvertebrates of Temperate Australia. J Gooderham & E Tsyrlin, (2002)	\$45 (GST included) <input type="checkbox"/>
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MDFRC texts

MDFRC taxonomic keys are highly recommended. They can be bought directly from the MDFRC through the following website:

http://www.mdfrc.org.au/bugguide/resources/taxonomy_guides.html

My favourites are taxonomic guides: 7, 50, 46, 43 and 40. (7 and 43 are now free downloads!)

If you have any of them already they are well worth bringing along so you can scribble in them.

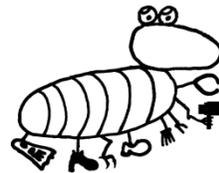
Registration

Please send the following info in an email to John:
flatworm@ozemail.com.au

Name:	
Title:	
Organization:	
Address:	
City, State	
Telephone:	
Email:	
Bug experience: (in two words)	

Enquiries:

John Gooderham (phone 0447 893 519)



The Waterbug Company