



FROGSHEET

Official Newsletter of the Queensland Frog Society Inc.

Autumn 2014

W: www.qldfrogs.asn.au | E: questions@qldfrogs.asn.au | Camps E: frogcamps@qldfrogs.asn.au |



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President's Report

Welcome to autumn! It has been a very hot summer so the cooler weather has been a relief for all, frogs included I'm sure! Some of you have probably had lots of frog activity over the summer and others very little since the rainfall has been patchy across the state.

The Queensland Frog Society has been successful in gaining a grant from the Brisbane City Council to assist with administrative costs and to produce a new up-to-date version of the Frogs of Brisbane Poster. We're hoping to have the poster finished by the end of the year so stay tuned! A big thankyou to the support from the Brisbane City Council!



The QFS needs to remain current and move with the changing times. To do this the society continually needs to reinvent itself, embracing new technology and techniques to aid in protecting the frogs of Queensland. Now more than ever is an important time for the QFS to be as effective as possible, with governments at both state and federal levels removing environmental protection. So contact us and get involved or provide some feedback on ideas you may have of how we can reinvigorate the society and help better protect our Queensland frogs. Let me know (president@qldfrogs.asn.au) of activities you'd like to see the QFS conduct (e.g. more identification workshops or surveys and monitoring in your area) or things you were expecting the society to provide when you joined. Any ideas, comments or constructive criticism welcomed!!!

We also currently have a number of positions vacant on the QFS committee so if you'd like to get more involved and help reinvigorate the society and assist in driving the direction and activities, we'd love to hear from you! We're also always in need of extra help at school presentations and the educational displays we hold across Greater Brisbane and in Central Queensland (Bethlea is our local coordinator doing a wonderful job for the Central Queensland frogs). So get in contact with us if you're keen to help our froggy friends!! You'll find the contact details on our website and in this newsletter.

Enjoy the last of the summer frog activity! Hopefully the whole state receives more much needed rain before winter. Cheers, Dan



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ROCKHAMPTON & CENTRAL QLD

Bethlea Bell
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Continued →

Diary Dates

Wetland Day Event

16th March - details TBA.
If you are interested in being involved,
please contact Bethlea Bell.

Million Paws Walk

18th May
Rigardsford Park, North Rockhampton
Walk commences 9:30am. Contact
Bethlea Bell for more info.

BCC Green Heart Event (Chermside)

1st June
QFS Display and Sales

L.E.A.F

8th June
Logan

QFS World Environment Day Display

8th June, 10am-4pm
University of the Sunshine Coast

QFS Management Meetings

7:30pm, 3rd Wednesday of every month
All welcome! Phone/email Jenny. H for location.

Frog Habitat Site Working Bees

Bowman Park, Bardon

8-11am - Contact Phil for more info

Grinstead Park, Alderley (off Short Street)

Contact Debbie Dolby for more info
ddolby@hotmail.com, Ph: 3355 4134

Carseldine Bush Crew

Cabbage Tree Creek, Carseldine
Contact James Hansen for more info at
jamna@powerup.com.au.

Working bees in frog habitat

If you are undertaking bush-care in frog habitat
and would like your working bee dates included
above, please email Jono at
editor@qldfrogs.asn.au.

SUNSHINE COAST

Brittany Elliott - Mob: 0421 341 853
Email: brittany_b_elliott@hotmail.com

From Jono

Hi Fellow Froggers,

No doubt many of you are keen to receive a decent downpour before the season ends (those of us living in southern QLD, that is). Many frog monitoring nights I'm involved with have been post-poned as conditions are not conducive to frog activity. In saying that, I was recently on a survey at Cooran with Eva where we turned up half a dozen or so of the endangered Giant barred frogs (*Mixophyes iteratus*), including several juveniles. Many of our creeks can hardly produce a trickle yet some frogs are still out and about.



So, whilst we hang out for the rain, relax and read the latest *Frogsheet*! Cheers, *Jono Hooper*



QFS supported by the Brisbane City Council



Thanks to Ascot Print & Design Pty Ltd for printing our *Frogsheet* header and footer for free

Ashgrove Report

Unfortunately I don't have a lot to report except we did have a good morning replanting around the large pond in Bowman Park earlier this month. We are trying to have a living barrier around the pond to keep the toads out but with the dry weather, nothing is growing very quickly except the weeds. At the end of February, Dan did hear Gracefuls calling there and I saw what looked like treefrog tadpoles at the working bee along with possibly striped marsh ones.

As Secretary I have been answering quite a few emails and phone calls so in some areas the frogs are doing well.

Cheers, Jenny

Rockhampton and Central QLD Report

Hi everyone,

Thanks to all who attended the fantastic Frog ID Workshop and Frogspotting Event we held on Saturday (15th Feb). Around 35 people were there and learnt plenty about how to identify and conserve local frogs. There were also some live specimens of cane toads at various stages of their life cycle to ensure that there was no confusion between native frogs and toads. The kids enjoyed spotting and collecting more once we got to the frogspotting part of the night too!

Continued ->

Welcome and thanks to our New Members

Ben Marriott, Riley Taylor, Byron Mobbs, Lynette Plenderleith, Beau Reilly and welcome back Lamp Family.

QFS Public Trust Fund - Ric Nattrass Research Grant

The QFS Trust Fund was created with the purpose to help save Queensland frogs through education and research, and now stands at **\$5,503.00**. We're happy to announce this year's successful applicant is Lynette Plenderleith, who will use the grant to fund travel and recording equipment for her research titled 'Phenology and detectability of Queensland Frogs'. See P.11

Changed your email address?

Please notify the Secretary of your current email address to avoid the risk of missing out on *Frogsheet* newsletters via email.

Want to help spread the word?

If you're a coordinator, why not set up a QFS display in at a community event and raise awareness of our awesome frogs? No expert knowledge is necessary, just a passion for frogs. Contact Jenny to arrange display and brochure pick-up.

Updated Diary Dates

Please visit the QFS website for updated and new events that arise between *Frogsheet* newsletters.

A huge thank you to David Flack for his expertise at the event, particularly after a huge week in a new job at Bundaberg Zoo! Thank you also to all those who helped set up and pack up, including Sarah Bell, Cherie Bell, Rosemary Preater, Margaret Hale, Amanda Lawrence and Jeff Krause. Special thanks goes to Shelly McArdle from Fitzroy River and Coastal Catchments (FRCC), Kelly Smith from Fitzroy Basin Association (FBA) for their assistance with organising and promoting the event and sponsoring the catering. Thank you also to Margaret Hale and Leeza Baily from Girl Guides for their assistance with securing the terrific venue. A final thank you to all organisations who provided free advertising for the event:- Capricorn Conservation Council (CCC), Society for Growing Australian Plants (SGAP), FBA, FRCC, Capricorn Coast Landcare Group (Landcare) and Jacque Mackay from ABC Radio (ABC).

Channel 7 Local News filmed part of the event and interviewed several participants, which aired the following week.

Bethlea Bell

Chermside and Surrounds Report

With the onset of early rains in November 2013, the local breeding season commenced positively with Tusked Frogs heard at several locations along the Cabbage Tree Creek corridor in Carseldine. Since then it has been a patchy wet season although it has provided an opportunity to install ponds in readiness for the next deluge - whenever that will be. I have installed a new pond complete with frogscape in Aspley - my largest backyard pond yet at 594 Litres! The Aquapro pre-formed pond measures 1900mmL x 1320mmW x 480mmD.

Elsewhere in the local catchments, the clay-based frogpond in Seventh Brigade Park, Chermside continues to attract frogs for breeding although I am yet to see it full this season. I spotted a Green Treefrog and heard numerous Striped Marshfrogs on a visit after heavy rain in late January. On the same night I passed by some flooded wetlands in Brighton and heard choruses of Eastern Sedgefrogs, Graceful Treefrogs and Broad-palmed Rocketfrogs. I have since been back to some of the ponds in Brighton and identified Eastern

Buy a Card and Support Your Queensland Frog Society

We offer gift cards for all occasions! For a donation of over \$5 to the Queensland Frog Society you can choose from four frog photos to have on your own printed card which we will send to you. There is a space for your own personal message to the person you are gifting it to. Below is an example of one of the photos, with the words on the reverse reading:



'This card represents a donation to the Queensland Frog Society (QFS) that has been made on your behalf. QFS is a non-profit community organisation that promotes the conservation and appreciation of all of Queensland's fantastic frogs. The money donated to QFS will be put to one of our many conservation activities including our research scholarship grants.'

Words on front of card reads: *'Someone has made a contribution to frog conservation on your behalf!'*

The frog photos to choose from are:

Southern red-eyed treefrog; Holy cross frog;

Fleay's Barred-frog and Orange-thighed frog. You can donate by either a direct deposit to our account or by sending a cheque/money order to our postal address (on page 1).

Account details are: Westpac Bank - Annerley Branch; BSB: 034 046; Account No. 13 43 4. Please send an email to secretary@qldfrogs.asn.au to inform the Secretary of the deposit.

Sedgefrog and Graceful Treefrog tadpoles. Unfortunately the few ponds that I visited subsequently dried up and did not provide sufficient time for the tadpoles to develop fully. Much of this fresh-water wetland area also sits within perhaps just one metre of mangrove channels, so the area faces some significant longer term threats over the next 50-80 years based on current levels of sea-level rise.

In mid-February I stopped by a pond in McDowall that holds water for longer periods of time. Although the pond has a large number of mosquitofish (*Gambusia affinis*), it was pleasing to see juvenile Eastern Sedgefrogs emerging from the pond and quite a number of large sedgefrog tadpoles. It's great to see this frogpond going so well despite the lack of rain and hot summer in Brisbane.

James Hansen

Mary River Report: The value of frogs in learning and engagement

The Mary River Catchment Coordinating Committee is not alone in its desire to empower members of the community to make decisions in their lives that benefit our environment and all that live in it. Over the past 11 years with MRCCC I have been fortunate to have had many opportunities to pass on information and ideas to landholders managing rural land, students from schools and university and even on occasion government staff. Lately we have become involved in the University of the Sunshine Coast's (USC) student workplace learning program and our first student started with us in late 2012. He was in fact the eminent editor of this wonderful newsletter; Jono Hooper! Based on the awesome outcomes of having Jono in our midst, this summer season we have had the pleasure of involving two additional undergraduate students into our working life.

The students and MRCCC commit to 96 hours in the workplace and the students are assessed on and obtain credit for their participation. Summer is a busy time in the field for MRCCC staff so the extra help is most welcome. But also we see it as our responsibility and privilege to interact



MRCCC/USC Summer 2013-14 Work Experience Student posing with the famous but endangered Giant Barred Frog (*Mixophyes iteratus*) Credit: E. Ford

with the students at a time when they are in a key learning phase and emerging into the working world. It is an opportunity to share our values with them and to expand their environmental and social outlook. We get a huge amount from the students too as they come with fresh eyes, asking questions, making comments and giving suggestions that cause us to think and re-think what we are doing and why.

Frog surveys have been a large component of all the students' experience so far. This activity takes them outside their normal realm of experience. Tripping and slipping along steep, heavily vegetated creek banks in the dark is enough to make anyone pay attention to what is around them! The world that is illuminated by a small beam of light becomes a very personal space and concentrates one's attention on the small details underfoot and on the sounds and smells of the night. We become acutely aware that there is more beyond our vision; trusting as we can so easily in Australia, that whatever is out there is not going

to jump out and eat us! The students, and other participants on frog surveys, are challenged to focus their senses and recognise small, subtle signs of life. It allows us to be alone, to be quiet for a change and to be surprised at the thrill of finally finding an amphibious sentinel overseeing its chosen arena.

Besides this fluffy account of what night adventures can do for us, frogs in themselves have proven to be invaluable for igniting a keenness to protect and improve habitat value along the waterways of the Mary River catchment. We hope that our visiting students take with them their new-found appreciation of frogs and work to improve conditions that will benefit them as well as other species sharing their environment.

Eva Ford

Bowman Park Frog Project, Bardon Report

This is a project undertaken by Bowman Park Frog Habitat Rehabilitation Group as a Habitat Brisbane Community Project and includes members of the Queensland Frog Society Inc and the local community. The aim of the project is to rehabilitate and protect an area where frogs are historically breeding, and to educate the local community about frogs. The park is typical of parkland in the Brisbane region and provides a good example of how to rehabilitate and protect existing frog breeding sites.

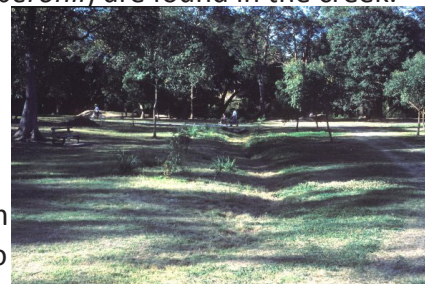
Bowman Park, Bardon is situated in the North West of Brisbane below Mt Coot-tha. BCC described this park as a “tree-ed park” and has multi-use activities: including cricket and football; bike and walking tracks; picnic areas; BMX bike circuit and playgrounds. The parkland includes a mown playing field, mown grass with scattered mature Brushbox and Queensland Blue Gums. Residential housing surrounds three sides of the park with Ithaca Creek forming the northern boundary. Ithaca Creek is well vegetated with stands of original mature trees and forms a wildlife corridor of good value. The source of the creek is Simpson Falls, Mount Coot-tha 3-4 kms to the Southwest. The creek supports the breeding of Stony Creek Frogs (*Litoria wilcoxi*), Eastern Sedge Frogs (*Litoria fallax*), Tusked Frogs (*Adelo-*

tus brevis), as well as toads (*Rhinella marina*, formerly *Bufo marinus*). Striped Marsh Frogs (*Limnodynastes peronii*) are found in the creek.

The park is a “wetland” area and in one area, a grass-lined swale about 60m long drained into Ithaca Creek.

Mown grass surrounded the site with mowing extending into the swale. After heavy rain the swale filled with water and was maintained by seepage from the water table. This formed a temporary or ephemeral pond and provided an opportunity for Green Tree Frogs (*Litoria caerulea*) and Graceful Tree Frogs (*Litoria gracilentia*) to breed. However, in 1993, during construction of a BMX track next to the grass-lined swale, drainage was to be “improved” because of “issues” overlying water was causing to contract mowing. This was brought to the notice of Councillor Judy Magub (Toowong Ward Office) and Jenny Leask (Liaison Officer, Bushland Care, Brisbane City Council). Parks Department was notified and the site was then put on notice as a “frog breeding area” and was “protected”. However contract mowing continued. While most people were aware that frogs were found in the area, they were unaware of the special need for ephemeral ponds for our native frog species.

In September 1995, the Bowman Park Project came into being with a Bushland Care Grant (now Habitat Brisbane) as one of first projects to focus on fauna (frogs). A star picket fence was placed around the area to protect the site from mowers, which was later replaced by a log wall. A



Pre-flooded grass swale



Star-picket fence erected around swale

community group was formed. With the elimination of mowing the site became overgrown with exotic weeds, mainly grasses taking over the site. The site had native couch growing throughout which was allowed to regrow. Long grass was perceived as a problem by the Council and the local community. Educational signs were erected to inform the local community that the site was a frog habitat area and the need for vegetation. A notice board was provided to keep the community informed with up-to-date information on the project. Alongside the drain these grasses



were replaced by *L. longifolia*) and other selected plants. Large rocks and logs were placed in and around the drain to provide shelter and perching. Small ponds were dug in the lower part of the drain to increase pooling of water for 4-6 weeks during the summer rains. The Habitat Site now has a dense ground-cover which is hoped to deter cane toads. The grassy swale is colonised with self-seeding sedges and rushes and the drain is surrounded by well-established *L. longifolia*. The site has mature Brushbox (*Lophostemon confertus*), Callistemens spp, Lillyphillies and Waterhousea growing on the perimeter of the site.

In 1997, a larger pond was dug out just left of the drain to provide a wider-open body of water. This was done to provide Green Tree Frogs (*L. caerulea*) with an improved breeding site. While there have been a steady increase in the diversity and density of frogs seen at the site, including, *L. gracilentia*, *L. peronii*, *L. fallax* and *A. brevis*. *L. caerulea* have been sighted in the new pond area, sitting on the rocks but have not breed at the site since 1995. It is not known if the vegetation is deterring breeding or that the numbers have drop beyond a critical level. Green Treefrogs are sighted in the backyards of residents in the vicin-



ity of the park. Long grass is present at two other Habitat Brisbane sites, at Raven Street Reserve, Chermside and East Grinstead Park, Alderley) and this has not deterred breeding of *L. caerulea*. *L. peronii* have breed at the site (surprise, surprise). *L. gracilentia* have increased in numbers, in some years up to 20 or so are heard calling.

The water in the drain is dependent upon summer storms and follow-up rains to allow sufficient time (3-4 weeks) for development and metamorphosing for *L. gracilentia*. The newly created pond held water for 4-6 days, even after heavy rain. Last year (2013), the BCC as part of the Habitat Brisbane program, dug out the pond and a clay liner of bentonite was laid to improve the time water remained. The site has been planted out with aquatic plants in and around the pond area, again to deter toads. Currently in 2014, five *L. gracilentia* (males) were seen and heard calling and there are now tadpoles in the pond along with *L. peronii*. Monitoring will continue to take population turnover, climatic changes and the impact of further changes to the area. Monitoring is carried out by a small band of QFSI members and local community people.

Frog monitoring activities of the site and surrounding areas are conducted at regular intervals. Working bees are held on the first Sunday in every even second month. The next will be held on Sunday April 6th from 8 until 11am.



Phil Bird

Caring for Frogs Injured by Extreme Weather (Hail Storms) Guide

1. Moisten some paper towels and line these in an escape proof container that is well ventilated.
2. Put a little plant in the container for them to hide in.
3. Keep the paper towels and frogs moist (as frogs breathe through their skin). You can use a spray bottle with tap water.
4. Wash your hands thoroughly as we have acid on our hands that can harm the frogs. Keep handling to a minimum as this can further stress the frogs who will already be in trauma from their injuries.



Hailstone injuries visible on Green treefrogs (*Litoria caerulea*), found by a Hervey Bay resident

Credit: Contributed

5. Let the frogs rest and keep them calm and away from predators
6. Do not warm them as this will further stress the frogs. They like to be moist.
7. You can take them into a vet/wildlife hospital to see if they know any carers in your area.

Brittany Elliott

Who's Who of the QFS

We continue the QFS Committee Member Profiles in this newsletter edition, so you can put a face to our names!

Jesse Rowland, Vice-President

1. What duties do you perform as Vice-Presi-

dent?

My role as Vice President involves helping out the President and other committee members in representing the society in a professional manner through activities such as displays, seminars and workshops. I also answer various email and Facebook queries about all things to do with frogs.



"Checking out the frog habitat while measuring (or hugging!) trees during field work."

Credit: A. Kelly

2. How long have you been involved in the QFS?

I became a member of the QFS in 2009.

3. What do you spend your time doing outside of your role in the QFS?

I work as an Ecologist for the Department of Science, Information Technology and the Arts; based at the Queensland Herbarium. In my spare time you might find me at the movies, on the road bike, kayaking or volunteering with other societies and organisations. I most enjoy driving/walking/hiking/camping in the bush with friends, usually to go birdwatching and/or frogging!

4. What lead you to become involved as Vice-president of the QFS?

I had been a member for a few years and was always interested in becoming more involved in the society and its operations. So at the AGM in 2011, with a little push from Dan, I became VP!

Jono Hooper, Newsletter Editor/Web Admin

1. What duties do you perform as Newsletter Editor/Web Admin?

The title says it all really. I ask all our committee and area coordinators for contributions every

three months, and begin editing and compiling the articles as they trickle through my inbox, eventually forming the final product - your *Frogsheet* newsletter! I also add content to our website, help keep our Facebook Newsfeed flowing and create graphics for various promotional items. Lending a hand at workshops and displays is also fun stuff - anything relating to frogs and I'm there :P

2. How long have you been involved in the QFS?

I recall it was in the beginning of 2011, when I attended my first frog workshop at Mooloolah.



Me frog monitoring (honest!) with QPWS in the Conondales. *Credit: L. Eagles*

3. What do you spend your time doing outside of your role in the QFS?

As you receive this newsletter I will be starting work as an Environment Scientist at a local consultancy business! Outside of work, I volunteer with several other catchment organisations, assist with frog monitoring, co-lead a youth group and enjoy hanging out with friends.

4. What lead you to become involved as Newsletter Editor/Web Admin of the QFS?

The QFS originally advertised for someone to take over the Junior page of the newsletter, so I jumped at the opportunity. Not long after, Naomi; former newsletter editor, stood down so as I enjoy creating and designing things on the computer, I put my name up for the job. Previous experience with websites lead to my role as Web Admin, then Facebook admin.

Restoring Endangered Frog Habitat in the Numinbah Valley (Media Release)

Simone Haigh | WetlandCare Australia | 18th December, 2013

WetlandCare Australia, in partnership with Griffith University and local landowners, has recently completed works to rehabilitate and protect critical Giant Barred Frog habitat in the Numinbah Valley.

Like many of Australia's precious frog species, Giant Barred Frogs have undergone dramatic declines over the recent years and they are now

listed as endangered under Queensland, NSW and Commonwealth legislation. The frogs forage and live in deep, damp leaf litter in eucalypt and rainforests, but much of this valuable habitat has been lost as a result of land clearing.



This weed infested section of the Nerang River contained no habitat for Giant Barred Frogs, January 2013 *Credit: L. Morphet*

To help reverse this trend, over 3400 native trees and shrubs were planted in a formerly weed infested and degraded section of the Nerang River. Surveys by Griffith University researchers have confirmed the existence of the frog along the other (well vegetated) side of the river, and the new plantings will create valuable additional habitat for the existing population.

"The local landowners have a strong commitment to improving biodiversity on their properties, and

we are very fortunate to be able to work with them” said Simone Haigh, Senior Project Officer for WetlandCare Australia.



Five months after the area was revegetated, the new trees are thriving and will create a valuable new habitat areas for the frogs (November, 2013)

Credit: L. Morphet

WetlandCare Australia is Australia’s leading not for profit, non-government wetland conservation organisation. Funding for this project was generously provided by the Robin Rothwell and Norman H Johns Charitable Trusts, managed by Perpetual.

Restoring the original vegetation also has other important environmental benefits, such as taking up and storing carbon, improving water quality in the river and providing habitat for the numerous other threatened species that live in the area. This project is part of an integrated strategy to restore and protect biodiversity in the Numinbah Valley, part of the World Heritage listed Central Eastern Rainforest Reserves of Australia.

Aquatic Microfauna Eat Frog-Killing Fungus

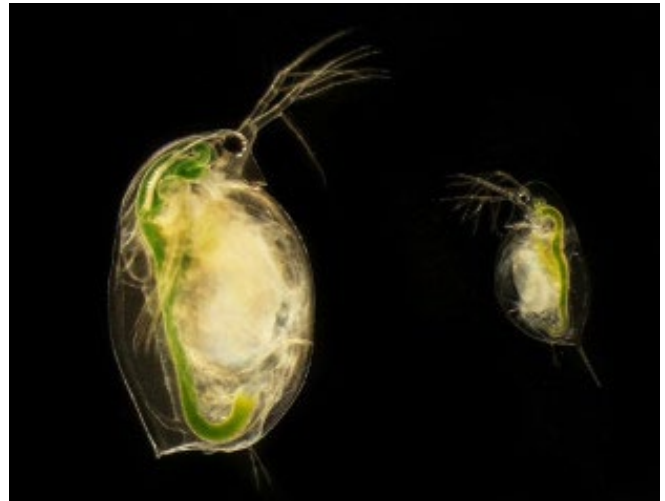
Yao-Hua Law | *The Scientist* | 23rd January 2014

Chytridiomycosis, the deadly disease caused by the fungal pathogen *Batrachochytrium dendrobatidis* (Bd), has been decimating amphibian populations worldwide since the 1980s. “We have no means to stop its advance,” said Antje Lauer, a microbial ecologist at California State University in Bakersfield, “and no cure that can be used in the wild to protect amphibians from it.”

Bd affects amphibian skin, disrupting its ability to regulate electrolytes in the body, explained

Jamie Voyles, an infectious disease ecologist at New Mexico Tech. Infected frogs lose excessive amounts of sodium and potassium, which are critical to keep their hearts pumping. Eventually, their hearts stop.

But new research suggests a potential preventive agent against Bd infection—one that may already be swimming all around the affected amphibians. Two recent studies demonstrated that aquatic microscopic fauna—such as *Daphnia*, *Paramecium*, and rotifers—can consume free-floating Bd zoo-



Adult female *Daphnia magna* (left) and *D. dentifera* (right)

Credit: C Searle

spores, keeping Bd from infecting as many frogs.

Dirk Schmeller, a conservation biologist at the Helmholtz Centre for Environmental Research in Germany, knew that Bd infection rates varied greatly across frog populations in lakes within the Pyrenees mountains, between France and Spain. Curious “if there was something in the water” skewing Bd infection rates, Schmeller—with the help of a hardy donkey—transported various lake water samples to his lab for a series of experiments he and his colleagues published in *Current Biology* last month (December 26).

Schmeller’s team found that low-Bd lake water contained more microscopic fauna than high-Bd lake water. These microfauna were mostly single-celled organisms like *Paramecium* and rotifers, which feed on organic matter they filter from their aquatic environments.

Visit/click <http://www.the-scientist.com/?articles.view/articleNo/38990/title/Aquatic-Microfauna-Eat-Frog-Killing-Fungus/>



----- ATTENTION ALL -----

One of our QFS members renewed their membership through direct deposit on the 15th October, 2013. Unfortunately, the only reference on the bank statement is "BUDERIM" which is not enough to find the record.

WE'RE YET TO HEAR FROM THIS PERSON

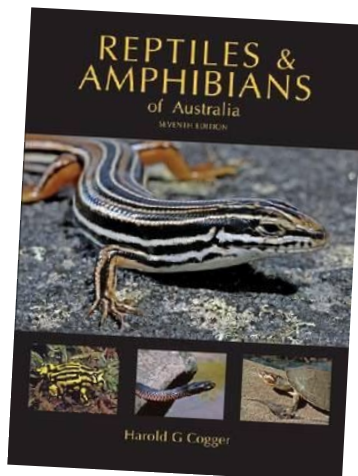
Please get in touch with Jenny if this is your deposit.

New Book: 'Reptiles and Amphibians of Australia - Seventh Edition'

Harold Cogger | 1064 pages | Released March 2014 | Hardcover | ISBN - 9780643100350

RRP: \$150.00

Reptiles and Amphibians of Australia is a complete guide to Australia's rich and varied herpetofauna, including frogs, crocodiles, turtles, tortoises, lizards and snakes. For each of the 1194 species there is a description of its appearance, distribution and habits. Each species is accompanied by a distribution map and, in most cases, a colour photograph of the living animal.



The book includes 130 simple-to-use dichotomous keys that in most cases allow a specimen in hand to be identified. In addition, it has a comprehensive list of scientific references for those wishing to conduct more in-depth research, an extensive glossary, and basic guides to the collection, preservation and captive care of specimens.

This classic work, originally published in 1975, has been completely brought up to date. This seventh edition includes all species described prior to October 2013.

Click here to view/purchase http://www.herp-books.com.au/cms/field-guides.html?page=shop.product_details&category_id=3&flypage=flypage.tpl&product_id=257

CONGRATULATIONS TO 2014 SCHOLARSHIP RECIPIENT

This year's successful applicant is Lynette Plenderleith who will use the grant to fund travel and recording equipment for her research titled 'Phenology and detectability of Queensland Frogs'.

Lynette is completing her Ph.D at Monash University Victoria and has completed a B.Sc (Honours) at Lancaster University UK and MSc at Towson University USA. At present Lynette is finalising her field studies on Lowe Howe Island before commencing in Brisbane.

The Trustees thank the applicants for their applications and wish them well in their studies.

Frotophraphy

Members Frog Photos

Have some neat frog photos you'd like to share here? Email them to me at editor@qldfrogs.asn.au by the next newsletter deadline (see back page).



Eastern Sedgefrog (*Litoria fallax*) Credit: V Watego



Treefrog tadpoles in various developmental stages
Credit: D. Pawluczyk



Green treefrog (*Litoria caerulea*) not bothered by the resident carpet snake (*Morelia spilota*) Credit: J. Hooper

Our apologies that this *Frogsheet* edition does not contain the book review of Marion Anstis' new book 'Tadpoles and Frogs of Australia'. We endeavor to include a comprehensive review in our Winter edition.

Thanks to those who contributed to this newsletter!
Remember, we're always keen for member-contributed content.
**Deadline for Winter *Frogsheet* contributions is
22nd May, 2014**

If undelivered, please return to
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