



THE QUEENSLAND MYCOLOGIST
Bulletin of
The Queensland Mycological Society Inc.

The Queensland Mycologist is issued quarterly. Members are invited to submit short articles or photos to the editor for publication. The deadline for contributions for the next issue is September 1, 2010.

Please ensure that the Secretary (secretary[at]qms.asn.au) always has your current email address.

The Secretary, Queensland Mycological Society Inc, PO Box 295, Indooroopilly Qld 4068

SOCIETY OBJECTIVES

The objectives of the Queensland Mycological Society are to:

1. Provide a forum and a network for amateur and professional mycologists to share their common interest in macro-fungi;
2. Stimulate and support the study and research of Queensland macro-fungi through the collection, storage, analysis and dissemination of information about fungi through workshops and fungal forays;
3. Promote, at both the state and commonwealth levels, the identification of Queensland's macrofungal biodiversity through documentation and publication of its macro-fungi;
4. Promote an understanding and appreciation of the roles macro-fungal biodiversity plays in the health of Queensland ecosystems; and
5. Promote the conservation of indigenous macro-fungi and their relevant ecosystems.

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QMS WEBSITE: www.qms.asn.au

Have you logged onto the QMS website lately? If not then it is time you did!! Many thanks to Andrew Kettle for getting the site up and running. Please provide feedback to the Committee about any ideas you may have for the site.

OFFICE HOLDERS 2009-10**Committee members**

President	Sapphire McMullan-Fisher	5485 3066	President [at] qms.asn.au
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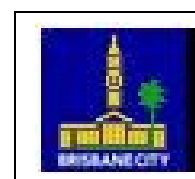
Other office holders

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To assist those not in attendance at meetings, notes on the addresses given are included in issues of the Queensland Mycologist. However, the notes never do justice to the topic as they do not reflect the enthusiasm of the speaker or cover the questions and discussions that were raised on the topic. So remember, where possible it is far better to attend the meetings, get the information first hand and participate in the invaluable information sharing opportunity.

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QMS acknowledges and appreciates the sponsorship that has been given to the Society by the Queensland Herbarium, SEQ Catchments and Brisbane City Council.



QMS CALENDAR 2010

Members are reminded that 2010 subscriptions (\$20 pp) were due in January. Payment can be made by cheque mailed to the Treasurer, Queensland Mycological Society Inc., PO Box 295, Indooroopilly Qld 4068 or directly to the Treasurer at the next meeting. A Membership Renewal Form is included on page 15.

Meetings are held in the Bailey Room at the Herbarium, Mt Coot-tha, commencing at 7pm on the second Tuesday of alternate months from February, unless otherwise scheduled. Check the website for any changes.

There will be a pre-meeting at 6 pm. at the Herbarium at Mount Coot-tha for those who attended forays and took photographs. They are asked to bring all images preferably renamed according to the QMS naming convention summarised on the next page (see the website or March 20 Newsletter for details. The website will contain any updates to the protocol).

To assist those not in attendance at meetings, notes on the addresses given are included in issues of the Queensland Mycologist. However, the notes never do justice to the topic as they do not reflect the enthusiasm of the speaker or cover the questions and discussions that were raised on the topic. So remember, where possible it is far better to attend the meetings, get the information first hand and participate in the invaluable information sharing opportunity.

QMS Meeting Programme 2010

Date	Speaker	Topic
10 August	Andrew Kettle	Fungal Genetics
12 October	Jutta Godwin	Lichens
7 December, 2010	Festive season celebration	

Meeting Supper Roster 2010

Two volunteers are required for each meeting – one to bring something savoury and one something sweet. ???=Help! Any volunteers?

Meeting	Savouries	Cakes/sweets
August	Pat Leonard	???
October	???	???
December	All Bring a plate to share.	

QMS 2010 Field Trip Programme

Field trip details may change as a result of drought or other unforeseen circumstances. Check the website for changes.

Date	Location	Leader
Saturday, 30 October	Northern SE Qld	Patrick Leonard
Saturday, 27 November	Mushroom Farming	Jon Atkinson / Kim Nguyen
Sat 16 October	Lichens-site TBA	Jutta Godwin

2010 Workshop Programme

Date	Topic	Leader
Saturday, 31 July	Managing images: focus on Extensis Portfolio	Megan Prance 0421 520 025 rhoda.spencer[at]gmail.com
Saturday, 28 August	Fungal photography – tips to take images for fungal identification	Sapphire McMullan-Fisher President [at] qms.asn.au
Saturday, 25 September	Using a Microscope and fungal ID's	Patrick Leonard & Diana Leemon patbrenda.leonard[at]bigpond.com

Please contact workshop leaders to get more information or book. Workshops are given on a cost recovery basis so there will so will be a charge between \$10-\$30.

Macro photography workshop

Presenter: Michael Snedic – Professional Nature Photographer

www.michaelsnedic.com

When: Sunday 26th Sep 2010

Where: Brisbane Botanic Gardens - Mt Coot-tha, Toowong

Cost: Special price for Fungi Society - \$65.00 (a reduction of over 70% on our usual photography workshop price of \$229.00)

Maximum number of participants: 12

Due to the fact that there generally aren't many species of fungi around in September (usually driest month), the aim is for Michael Snedic, one of Australia's most acclaimed and published nature photographers and writers, to show the participants all the macro photography techniques he has learned in the last 14 years. You may be photographing different flowers/insects etc, but the techniques are identical to photographing fungi.

Subjects covered include:

- Macro lenses
- Extension tubes
- Correct use of tripods
- Macro flashes
- Focusing rails for precision macro/fungi photography
- Using natural light – best times to photograph
- Reflectors
- Diffusers
- Manual versus auto focusing
- Metering
- Focusing points
- Depth of Field (DOF) – very important!
- Live View

and much more...

To book, contact Megan Prance at rhoda.spencer@gmail.com and arrange to pay a deposit of \$20 to Megan



President's Report

May was a busy month in which we held our AGM. We are grateful to Fran Guard for taking on the job of secretary, but are now on the look out for a Treasurer! I would like to take the opportunity to thank all of the active members of QMS. We are a small group but have a very active program. Following the reports and election we had an excellent presentation from Alisa Holland the chief curator at the Queensland Herbarium (BRI). Not only did Alisa go into some of interesting Queensland botanical and mycological history but she also found some historic books and specimens from the collections for members to enjoy.

After the AGM I attended a Fungimap expedition at the Blue Tier in the northeast of Tasmania. This was a very successful expedition with many interesting fungi seen and photographed. It was also an educational opportunity with a weekend of forays and workshops for the locals, many of whom were field naturalists. This expedition was covered by local ABC radio and a summary and the audio can be heard at www.abc.net.au/rural/regions/content/201006/2918083.htm. For those with children there was also a fungal episode on SCOPE (channel 10's children's science show on Saturday mornings) <http://ten.com.au/scope-15805.htm>.

I'm also pleased to announce the dates for **Fungimap 6 are July 14-19, 2011 in Denmark WA**. This event will be a day of mycological talks followed by three days of forays and workshops.

The weather bureau predicted a wet winter and so far we have not been disappointed. The rain was a perfect preparation for the foray to Great Sandy National Park, Southern Cooloola, in the last weekend of June. There were lots of fungi on wood at the rainforest site and the wallum heath site had several mycorrhizal taxa including boletes, an *Amanita* and the ubiquitous *Laccaria* species. We had a successful identification session on Saturday afternoon which as always gave a sense of satisfaction. The congenial mood continued over a tasty dinner at the Apollonian Hotel at Boreen Point.

We are now coming up on the drier season so expect to see less fungi about. During this time there are three workshops organised for members:

Saturday, 31 July, 2010;Managing images focus on Extensis Portfolio: Megan Prance;

Saturday, 28 August, 2010; Fungal photography – tips to take images for fungal identification: Sapphire McMullan-Fisher;

Saturday, 25 September, 2010;Beginners microscope on fungal IDs: Patrick Leonard & Diana Leemon

Please contact workshop leaders to get more information or book.

Good news from the fungi book group: The Museum has suggested a larger A5 format which will allow for more fungi to be included and greater scope for layout and design. We now also have a timetable so ideally want all images and collections together by June 2011. However, if we have a dry season we could get additional images and specimens in the following season but these would need to be ready for print by July 2012. So photographers please keep your eyes out for our 'wish list' species and don't forget to take a collection!

We will also be having a discussion for members at the August meeting about forays and workshops. We want to know from members what they think about the current process and how it could be improved. We also have noticed a reduction in volunteers to lead forays so want to discuss foray frequency. For those who haven't delved into the QMS foray box, this will be brought along for everyone to have a look at. If you are unable to attend the next meeting but do have ideas or opinions on QMS forays please let us know by email – <sapphire[at]flyangler.com.au>.

Two rare coral fungi on wood

Sapphire McMullan-Fisher

Two rare coral fungi found on wood in rainforest have been found during recent surveys at the Mary Cairncross Reserve near Maleny. *Deflexula fascicularis* was found for the second time in Queensland; the first collection was reported from a rainforest site on the Springbrook plateau during the QMS survey in November 2008. So it seems this fungus may have an affinity for rainforests. This species has been recorded at three separate locations within the Mary Cairncross site. So while this species may be geographically rare it may be more common in the right circumstances.

Also recorded was the Fungimap target *Hericium coralloides*, a rare species in Europe and northern America that seems to be more common in Australia. It has had a number of names but from the virtual herbarium there are two collections in Canberra, three in Melbourne and eight in the Queensland Herbarium. The Queensland collections are from Lamington, Mt Glorious and the Bunya Mountains, so this collection adds the Blackall Ranges to its distribution. There were also at least 25 records of this species across the east Australian coast in the 2005 map from *Fungi Down Under* (Grey & Grey 2005).

Reference: Grey P., and Grey E. (2005) *Fungi down under* Fungimap: Melbourne.



Deflexula fascicularis, *Hericium coralloides* © Sapphire McMullan-Fisher

FIELD TRIP REPORT

Report of the foray to Mt Cordeaux, Cunningham's Gap

13 March, 2010

Susan Nelles

Eight members enjoyed another visit to one of QMS' long-term regular foray study sites in this rainforest.

The ranger provided details of the rainfall: Jan 129 mm, Feb 359 mm, to date in Mar >163 mm had soaked the bush and substrates.

We started 500 m further along the track than on the previous foray and recorded 67 species, 44 in 2008.

Members are improving the field ID rate – this time we were able to identify - 48% to species, 29% to genus, and some remaining fungi were subsequently identified to generic level.

Highlights include

Podoscypha petalodes at the base of a brush box is the first record for Queensland.



Podoscypha petalodes © Jon Atkinson

Boletus aff *destitutus* - see description on page 11.

Inocybe discissa, found in soil, the first record for Queensland. Unfortunately there is no photograph.

Inocybe cystidiocatentata - new record for Queensland. Also no photograph.

Lepiota exocarp - second record for Qld.



Lepiota exocarp © Peter Warhurst

We also found several waxcaps - *Hygrocybe arcohastata*, a greenish brown waxcap which changes colour with water absorption, *Hygrocybe graminicolor* in litter at the base of a dead tree and *Hygrocybe sp.* in soil in a bank.



Hygrocybe arcohastata © Peter Warhurst



Hygrocybe graminicolor © Jon Atkinson

Entoloma aff. *linki*



Entoloma aff. *linki* © Peter Warhurst

Two truffles- *Protoglossum luteum* (a small white truffle) and *Richoniella pumila*, a small brown one.



Protoglossum luteum (L) and *Richoniella pumila* (R) © Jon Atkinson

Listed below are some species found on Mt Cordeaux in both 2008 and 2010.

2010

Stereum ostrea

Anthracoerythrum archeri

Auricularia cornea

Collybia eucalyptorum

Crepidotus nephrodes

Cymatoderma elegans

Ganoderma australe

(? *Lentinellus tasmanicus*) *Lentinellus* sp.

Lenzites

Scutellinia sp (eyelash fungus)

Trametes versicolor

Xylaria sp.

2008

Collybia

Crepidotus ?

group of tiny spores – no recorded species for Qld

Lenzites vespacea

Xylaria hypoxylon

Species: *Boletus aff destitutus* Corner



© Patrick Leonard, Megan Prance

Cap: convex; 12 – 15 mm diameter; velutinate; chocolate brown; surface soon breaking in to patches to reveal creamy buff flesh below; margin not appendiculate

Stipe: clavate; 35 – 40 × 3 – 4 mm; fibrillose to pruinose with a network on lower part; yellow at apex, then dark red and brown in lower half.

Pores: orangy yellow, slightly decurrent and radially elongated, not changing colour on bruising.

Flesh: buff, unchanging on exposure to air.

Smell: faint, boletoid.

Spores: olivaceous; amygdaliform; 7.3 – 9.1 × 4.1 – 5.3 μm , average $8 \pm 0.55 \times 4.5 \pm 0.4 \mu\text{m}$; Q = 1.5 – 1.95, average 1.75 ± 0.12 .; smooth, with one or two oil drops.

Basidia: clavate, four spored.

Pleurocystidia: present.

Pileipellis: a trichoderm.

Habitat: solitary specimen growing in an earth bank in rainforest.

Notes: this collection is remarkably close to Corner's *Xerocomus destitutus*, It should be noted that on account of the Q value being less than 2, it keys to the genus *Phlebopus* in Halling's modern key.

Collections examined: PL50310; Cunninghams Gap, David Holdom, 13 March 2010.

QUEENSLAND FUNGAL RECORD
© Queensland Mycological Society

Species: *Lyophyllum* aff *connatum*



© David Holdom

Cap: Broadly convex; 80 – 150 mm diameter; velutinate; white; margin appendiculate.

Stipe: Barrel shaped, that is broader near center, caespitose; 90 – 210 × 20 – 50 mm; stuffed; white, sparsely fibrillose.

Gills: adnexed, white then cream; edge irregularly crenate; lamellulae present.

Flesh: white, unchanging.

Taste: pleasant hard to describe.

Chemical reactions: FeSO₄ on cap and gills: nil

Spores: white, ellipsoid; 5 – 7 × 3.5 – 4.5 μm.

Basidia: long, narrow, cylindrical, four spored.

Cheilocystidia: not seen.

Pleurocystidia: not seen

Habitat: soil with straw mulch in a suburban park.

Development: Slow, over about two weeks; mature cap persisting for several days.

Notes: The fungus looks very like *Lyophyllum connatum* and has many of its microscopic characters, but, gill attachment, reaction to FeSO₄ and overall size all differ significantly so this must be another species. Raitelhuber has described a number of species in a new genus *Pseudolyophyllum* but it has been impossible to obtain the literature. There are also some tropical *Clitocybe* species close to this collection.

Collections examined: PL 26310; Chelmer, Brisbane, Queensland. David Holdom, February-March 2010. Sequence illustrated is from 27 February to 11 March

Why You Should Never Identify a Fungus on the Telephone - a Cautionary Tale

Telephone caller at St. John's Cathedral:

Michael on mobile 'phone to James: "I know you are interested in fungi. I have just seen some new ones. I have my camera (a digital) with me." [As an occasional professional photographer, M. always had one or three cameras with him.]

James (showing keen interest): Whereabouts at St. John's?

M: In the garden near the front.

J: How many and what colour are they please?

M: There are several. They have bright yellow caps and stems.

J: When you take a photo, can you make sure, if possible, to photograph under the cap so that we can see if they have gills or pores and what colour they are? You may need a mirror. How large are they? Did you detect any smell?

M: There are a few with a cap about 50 mm diameter and about the same height. I didn't notice any smell. I'll be home about one o'clock, you might like to call over and I'll show you them on the computer.

At Michael's later:

J: They are good photographs. Were they (the fungi) on trees or plants at all or on leaf litter?

M: No, they were just in soil or mulch although there didn't seem to be much mulch there.

J: May I have a copy later please?

We walked down to the local shopping centre where Michael had some cheap photographs printed.

James then proceeded home to look up all the books he had to see if he could find fungi to match the photos. Nothing really matched. *Dermocybe canaria* (illustrated in Fuhrer) looked significantly darker rather than a bright canary yellow of the actual photo.

A little later James telephones Pat:

J: describes a yellow fungus the colour of a canary! It looks like the picture of *Dermocybe canaria* in Fuhrer he says.

P: well you say its bright yellow all over, was it growing up at Lamington?

J: Well no, it was in the church grounds.

P: So where is this church?

J: In central Brisbane!

P: But are there any native trees there?

J: Well there might be.

P: Does it have brown spores.

J: Well I am not sure about that.

P: Well it could be *Dermocybe canaria* but I have only seen this growing under *Nothofagus*.

J: Well that's probably it then, I will tell Michael.

Two weeks later several QMS Members are at lunch round the picnic table at the Redcliffe Botanic Garden.

James whips out a picture of the mystery fungus.

J: this is the picture of the *Dermocybe canaria* I was talking to you about on the phone.

A picture of a pale cream mushroom with green gills is handed over.

P: that's not *Dermocybe canaria* it has green gills, I only know one mushroom with gills that colour, it must be *Chlorophyllum molybdites*, but it looks a bit odd.

J: Well it's not really green, you see Michael's computer went down and he is using it in basic mode and the colours have gone a bit funny.

Pat passes the photo to Jan on his left and

James passes over another photo to P which does not look like either a *Dermocybe* or *Chlorophyllum*.

P: to no one in particular: it's not easy to identify fungi from photos!

By this time the first photo has got round the picnic table as far as Gretchen.

G: I know what this is, it's a *Leucoprinus*.

Stunned silence as everyone adjusts to the concept of the fungus shrinking to a quarter of its previous size.

P: yes, look I can see the rim of a flowerpot.

The photo goes round the table again and we can all now see the faint terracotta line behind the fungus confirming a large flowerpot.

P: Well it must be *Leucocoprinus birnbaumii* then.

Pat Leonard & James Hansen

June 2010

Queensland Mycological Society Inc

ABN 18 351 995 423

Membership Renewal 2010

Surname: **Given Names**

Address

..... **PostCode**

Phone **Mobile**.....

Email Address:.....

Date:

Amount due: \$20.00 per person

Due date: 1st January 2010

Amount paid: \$.....

Renewal Forms may be submitted in person at a QMS general meeting at the Queensland Herbarium, Mt Coot-tha or posted to:

The Treasurer
Queensland Mycological Society Inc
PO Box 295
Indooroopilly QLD 4068

Payment Options

Please circle as appropriate:

Cheque / Money Order / EFT / Cash (only in person – not by mail)

Electronic Funds Transfer (EFT) Bank Details:

Account Name: Queensland Mycological Society Inc
Westpac Bank BSB 034 055 Account Number 21-3324

Receipt No

* Please ensure your name is on the transfer entry

* Please also send an email, including EFT reference number to

The Treasurer at [diana.leemon\[at\]deedi.qld.gov.au](mailto:diana.leemon[at]deedi.qld.gov.au)