



Understanding
Our Natural World

Field Nats News No.291

Newsletter of the Field Naturalists Club of Victoria Inc.

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Reg. No. A0033611X

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Governor of Victoria

Office Hours: Monday and Tuesday 9.30 am - 4 pm.

November 2018

From the President

Flies have been keeping me preoccupied again this month now that they are really turning up in large numbers in the slightly warmer weather. I was digging over the vegetable garden when I noticed a large, white insect larva which I promptly collected. It appeared to be associated with sick and damaged scarab beetle grub. The larva, (photo 1) measured 42mm in length and was very active. It is a fly larva and I believed it to be a robber fly “maggot” and a large one at that. After a week in a dish of moist soil it pupated (photo 2) and is clearly a robber fly (*Asilidae*). The pupa is 33mm in length, fully extended, and I am waiting for the adult to emerge. Its size suggests a *Colepia* sp (photo 3—see p3) which appears in my garden nearly every year and hunts anything that moves including bees and dragonflies. I measured one specimen as 40mm long with a wingspan of 59.5 mm. I will know for certain in a few weeks when the adult appears.

Another interesting phenomenon was a clump of “garden maggots” (photo 4) sitting under a pot plant I was moving. There were dozens of moving larvae in a golf ball sized brown mass. I believe they are the larvae of “compost flies”, *Bibio imitator* of the family Bibionidae. The larvae (photo 5) are detritus eaters, pupate in the soil and emerge in late spring or early summer in large numbers. The flies (photos 6, 7, 8) are markedly sexually dimorphic and spend a lot of time copulating hence the epithet “Lovebugs” used in some parts of the world for related species. In fact the males may remain attached or “plugged” to prevent access by other males, guaranteeing their own reproductive success. I am also waiting for the pupation and emergence of these larvae over the next six weeks to confirm the identity of the flies.

Maxwell Campbell



The deadline for FNN 292 will be **10 am on Tuesday 6th November**. FNN will go to the printers on the 13th November with collation on the 20th.

FNN 292 will be a combined December 2018/January 2019 issue.

Index	Page
From the President	1,3
Calendar of Events	2
Members' Observations	4
Day Group Report: Hands on Photography Session.	5—6
Australian Natural History Medallion Invitation	7
A little more about the History of the SIGs	8
News from the Bookshop	9
Galapagos Islands (<i>advert.</i>) Spring Cleaning	10
Extracts from SIG reports given at the last FNCV Council Meeting.	11-12

All images: *M. Campbell*.

Photo 1. Asilid larva 42mm long.

Photo 2. Pupated larva from photo 1 (8 days later) 33mm long.

→ *Photos 3—8, see page 3.*



CALENDAR OF EVENTS

*All meetings are held at the FNCV Hall, 1 Gardenia St. Blackburn at 8 pm., unless otherwise indicated.
On days of extreme weather conditions, excursions may be cancelled. Please check with leader.*

November 2018

Saturday 3rd to Tuesday 6th - Fauna Survey Group Survey: *Fauna and nestbox survey at Rushworth.*

Contact: Ray Gibson 0417 861 651; rgibson@melbpc.org.au **Prior registration essential.**

Diary Date:
FNCV Christmas
Party 8th Decem-
ber. See FNN p 6

Monday 5th – Fungi Group. No Meeting

Saturday 10th—Juniors Group. Excursion: Sherbrooke Forest.—*Recognising its flora and fauna.*

Registration essential. Meet at 2 pm. Meeting place will be advised to those who have registered.

Leader: Diana Gentu. Contact: Patricia Amaya juniors@fncv.org.au

Sunday 11th - Terrestrial Invertebrates Group Excursion: *Langwarrin Flora & Fauna Reserve.*

Meet 10 am in the car park at the western end of Centre Break (off McLelland Drive). Melway 103 E10.

Contact: Reiner Richter: fncv@rnr.id.au <https://goo.gl/maps/LQwgkWHy8Xv>

Monday 12th – Australian Natural History Medallion: *Reception and buffet 6.30 pm. Presentation 8.00 pm.* Those not attending the buffet are most welcome to attend the presentation. The 2018 medallion is awarded to Sarah Lloyd for her contribution to conservation, natural history and education. Presentation of the medallion will be followed by a talk from the recipient. For buffet bookings (\$22) contact the FNCV Office. admin@fncv.org.au, 9877 9860. **Invitation p7.**

Monday 12th - Marine Research Group. No Meeting: ANHM

Tuesday 13th - Fauna Survey Group Meeting. *Building an understanding of habitat use, movement and migration of Latham's Snipe.* Speaker: Birgita Hansen, Research Fellow, Centre for eResearch and Digital Innovation, Federation University Australia. Contact: Robin Drury 0417 195 148; robindrury6@gmail.com

Thursday 15th – Botany Group Meeting. *The Gibson Desert: a botanist's perspective.* Speaker: Dr Mary Gibson

Contact: Ken Griffiths botany@fncv.org.au

Tuesday 20th—Collate FNN 292. Starting about 10 am. Contact Joan Broadberry 9846 1218

Wednesday 21st - Terrestrial Invertebrates Group Meeting. Speaker: *To be advised*

Contact: Max Campbell 0409 143 538; 9544 0181 AH; mcam7307@bigpond.net.au

Sunday 25th - Terrestrial Invertebrates Group Excursion. *Buttongrass Nature Trail, Bunyip State Park.*

Meet 10 am in the car park at the start of Guide Track (on Camp Rd). Drive via Tynong North Rd (from the Princes Hwy) or Gembrook-Tonimbuk Rd from the north.(Mel Key Map page 14 R12). Contact: Reiner Richter fncv@rnr.id.au

<https://www.google.com.au/maps?q=-37.986,145.642>

Monday 26th—FNCV Council Meeting 7.30 pm sharp. Agenda items & apologies to Wendy 9877 9860; admin@fncv.org.

Tuesday 27th – Day Group Meeting. *Looking at nature in Central Europe, part 2* Speaker: Andrew McCutcheon has very kindly agreed to continue his fascinating presentation exploring the wild areas of Slovenia and neighbouring countries. Meet for coffee and a chat at 10.30 am, speaker at 11 am. Contact: Joan Broadberry: 9846 1218

Wednesday 28th – Geology Group Meeting. *Geological travels in North-West US National Parks including the Scablands.*

Speaker: Members of FNCV and U3A Geology group. Contact: Ruth Hoskin: 9878 5911; 0425 729 424; rrhoskin@gmail.com

Friday 30th – Juniors' Group Meeting 7.30 pm. *Seabirds and their similarities with the Cookie Monster*

Speaker: Marlene Rodriguez Contact: Patricia Amaya juniors@fncv.org.au



The policy of the FNCV is that non-members pay \$5 per excursion and \$3 per meeting, to contribute towards Club overheads. Junior non-member families, \$4 for excursions and \$2 per meeting.

**Presidents'
Report***Continued
from page 1*Photo 3. *Colepia* sp on the prowl. 35 mm long

Photo 4. A wriggling clump of "Garden Maggots".

Photo 5. Close up of likely *Bibio imitator* maggot 14mm in length, from the clumpPhoto 6. Copulating *Bibio imitator*.Photo 7. Female *Bibio imitator*.Photo 8. Male *Bibio imitator*. Note the contiguous eyes.**WANTED TO EXCHANGE OR PURCHASE:**

**INDIVIDUAL ISSUES AS PUBLISHED OR RUNS OR COMPLETE WORKS IF BOUND TO
INCLUDE ALL WRAPPERS AND ANY RELATED EPHEMERA:**

The Southern Science Record 1883–1886

The Victorian Naturalist January 1884–December 1893 as well as April & May 1926,
September 1927, September 1935, January 1937 and May 1960.

I would be pleased to consider outstanding copies by virtue of condition or association or other
issues with a view to further enhancing my sets. Thank you.

**Dr Mark R Cabouret
Level 4
No. 2 Collins Street
MELBOURNE VICTORIA 3000**

Members' news, photos & observations

We always have space for members' photos and natural history observations. Please share with us what you have noted in your daily life, travels or garden. Email: fnnews@fncv.org.au by the first Monday in the month.

Welcome Welcome

Warmest greetings to the following new members who were welcomed at our last Council meeting.

Darlene Norman, Heather de Hombre, Kaye Trainor,
Taisiya Chernyavska, Oleksandr Chernyavskiy, Martin O'Brien,
Aileen Sullivan and Barry Sullivan

A leaf with whiskers Can anybody identify this? Found on a Weeping Lilly Pilly in Rob Hamson's garden.



Julodimorpha saundersii

Giant Jewel Beetle

This enormous Jewel Beetle was found on Hi Vallee Farm by John Harris during a recent trip he and Kathy led to Western Australia. It is a WA endemic. For those not familiar with Jewel Beetles, the ones commonly found around Melbourne are usually about a 1-2 cm in size. The astonishing right-hand internet image shows a number of males attempting to mate with a beer bottle. The explanation is that females of this beetle are flightless and considerably larger than the males. They have a similar brown, textured surface as discarded stubbies. In a species with much larger females, males tend to prefer the biggest females, hence the attraction to a very large replica female/stubby. Unfortunately this tendency to ignore females for beer bottles impacted markedly on the reproduction rate of *Julodimorpha saundersii*.

The good news is that, according to an exhibit I found in the Melbourne Museum insect section, the problem stubby has since been redesigned to make it less attractive to the males and population numbers of the Giant Jewel Beetle are recovering.

Joan Broadberry



Day Group

Hands on Photography: a Practical session led by Wendy Clark

25th September



On Tuesday 25th September, 15 members of the FNCV Day Group and one visitor, met at 10 am at the Blackburn Bowling Club car park just off Pakenham Street. We were just five minutes from the FNCV clubrooms in the heart to the Blackburn Creeklands Park. This delightful linear park consists of three continuous bushland reserves situated along the banks of Gardiners Creek. They are Blacks Walk, Kallang Park and Furness Park. The area retains a canopy of mature eucalypts and an under-story of native shrubs. It is home to a variety of bird species and many walking tracks.

The Day Group were gathered for a two hour, practical photography session. Our leader, Wendy Clark, a very accomplished photographer and educator, had offered more her time and expertise as a follow up to the presentation she gave in March titled "What are your photos saying?" "see FNN 285 pages 11–12.

Wendy first touched briefly on a few photographic basics, for example, that the difficulty of looking at a screen outdoors, especially in the sun, can be minimised by wearing a hat with a wide brim which can be used to shade the camera. We then set out on a short walk along one of the bushland paths, tasked with the job of finding subjects to photograph.

It was a cool, overcast day with little wind. Many shrubs, including wattles, daisy bush and Tree Violets were in flower. As we spread out and ambled along at field naturalist pace, group members helped each other out identifying bird calls and sightings. Some of the highlights were: Butcherbirds, Noisy Miners, Wattlebirds, Kookaburras, Rainbow Lorikeets and a lovely view of a King Parrot. Anthea kindly sent FNN a few of the bird photos she snapped on the walk.

Wendy was kept busy working with small groups or individuals, answering questions and giving advice on matters such as camera settings, composition, perspective, focusing, backgrounds and much more. Many of us experienced that elusive 'wow' moment as under her tutoring, a poor image turned into a good one.



Photos: *Top down*
Noisy Miner
Common Bronzewing
Magpie Lark

Thanks: *Anthea Fleming*



The time went quickly as it does when one becomes absorbed in an activity.

Photography and natural history link together seamlessly. Birds, botany, terrestrial and marine invertebrates and fungi are just a few of the areas in which experts and amateurs alike rely on their cameras to advance their understanding. The digital age with its never-ending technical advances presents a challenge to even experienced photographers. We all have many questions, particularly in the area of macro-

(Continued on page 6)

(Continued from page 5)

photography and it is wonderful to have someone like Wendy, help us to answer them.

There has been some great feedback from participants on how much they enjoyed the session. It takes time and effort to advance in any field and photography is no exception. For those who would like to continue their education with Wendy her website offers many possibilities.

<https://www.masteryourcamera.com.au/>

In conclusion, on behalf of the Day Group, I would like to once thank Wendy for leading such a productive practical session and acknowledge her generous contribution to FNCV programs over many years.

Joan Broadberry



The photos of the Day Group on this page were taken by *Joan Broadberry*. They are included to provide a record of the day.

From the office...

Dear Members

A reminder that FNCV's fabulous **Christmas party** will be held on **Saturday 8th December** from 6 pm onwards. As usual we will be organising our raffle, where usually everyone wins a prize! Please donate something as a raffle prize, something which will appeal to your fellow members. There's a large box in the office, on the shelf near the window, clearly labelled "CHRISTMAS RAFFLE PRIZES". Please help to fill it to the brim! Items can be brought to any meetings which you may be attending, or during office hours. Thank you!

Any donations of biscuits, tea and coffee for meetings would be gratefully received. They can be left in the kitchen, thank you!

Wendy Gare
Administration Officer





The President and Council of
The Field Naturalists Club of Victoria Inc.
have pleasure in inviting you to the presentation of the



**Australian Natural History
Medallion 2018
to Sarah Lloyd**

for her contribution to conservation, natural history and education.

The Medallion will be presented by
Mr David Zerman, President, Royal Society of Victoria

on **Monday 12 November 2018** at
**1 Gardenia Street
Blackburn Vic 3130.**

Reception at 6:30 pm with light buffet. **Cost \$22.**

Presentation of the Medallion will be at 8 pm and is free for those who
do not require the buffet.

Following the presentation, Sarah Lloyd will speak on

"Life amongst slime"

Please RSVP to Wendy (03) 9877 9860 or admin@fncv.org.au

Payment for buffet by 5th November please,
preferably direct into the Club's bank account, details are:

**Bendigo Bank: BSB 633-000 Account No: 123098725
Account Name: The Field Naturalists Club of Victoria Inc.
Please put "ANHM" along with your surname as your reference.**

If you would rather pay by cash, cheque or card, that's fine.
Cash would need to be brought into the office between 9.30 am and 4 pm on Mondays or Tuesdays.
For card payments, it would be easiest to phone during those hours and I'll take down your details.

A tax receipt will be issued by email for your payment.

**Many thanks to those who helped collate and label
FNN 290**

Andy Brentnall, Edward Brentnall, Hazel Brentnall
Cecily Falkingham, Ray Gibson, Neil McLachlan
Sheina Nicholls, Anne Warren

**Thanks to the editorial and
layout team who put together
FNN 291**

Joan Broadberry
Wendy Gare
Sally Bewsher

A little more about the history of the SIGs.....

Dr Gary Presland opened the recent symposium, *Introducing the FNCV*, with a presentation focusing on the formation of the Special Interest Groups (SIGS). The history of the club stretches back to 1880. Many of us might imagine that its organisational structure has not changed since its inception. This is not the case. For a long period the FNCV operated in a generalist manner, with a single monthly meeting and monthly excursion open to all members. One advantage of this structure was a high level of collegiality. That is all club members had many opportunities to get to know each other and to share their varied interests. As the tables below show, the formation of SIGs began in 1926, but was short-lived until after World War II.

Below are two of the slides Gary used in his talk. FNN thanks him for the use of his material J.B.

Formation of the current SIGs

Geology	— December 1945
Botany	— March 1946
Microscopy	— Formed in 1857 as a separate group; became part of FNCV in June 1954
Fauna Survey	— April 1960
Day	— December 1971 – November 1989 — October 1996 – October 1997 — June 2008
Marine Research	— Formed in March 1980, within Museums Victoria; became part of FNCV in Feb. 1997
Juniors	— Formed as Hawthorn Juniors, in 1943; became part of FNCV in 2002
Terrestrial Invertebrates	— June 2002
Fungi	— October 2004

Other, mostly short-lived SIGs

Orchids	— June 1926 – February 1927
Ethnological	— June 1928 – August 1929
Marine biology	— August 1947 – 1951
Wildflower Garden	— December 1947 – 1955
Native Plants Preservation	— 1949 – 1951
Marine biology & Entomology	— 1956 – May 1982
Field Survey	— February 1971 – June 1976
Conservation	— April 1974 – May 1975
Bird Study	— June – August 1976
Bats	— August 2005 – Sept 2012

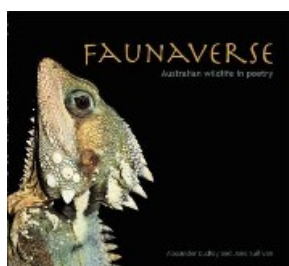
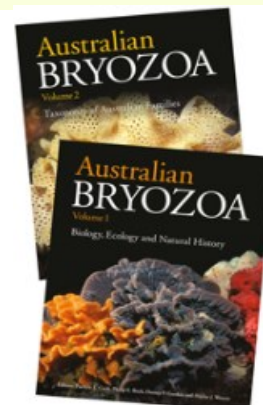
The views and opinions expressed in this publication are those of the authors and do not necessarily reflect those of the FNCV.

This newsletter is printed on recycled paper.

NEWS FROM THE BOOKSHOP (November 2018)

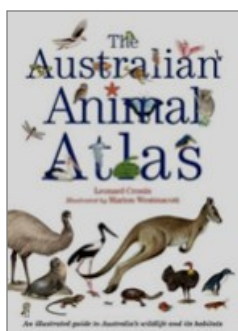
There are so many interesting books available; it is difficult to showcase or stock them all. This month we have a broad range of titles that range from poetry to eating your backyard weeds! The two titles *Australian Bryozoa* were first released a couple of months back, so apologies for not including them until now. These two books will only be available through orders, so if you are interested, please let me know. All books are sold with a 20% discount off the recommended retail price to our members so there are plenty of bargains, along with a range of second hand books in great condition which are further reduced in price. Come into the clubrooms and have a look at the full range of books available (there are loads!) on the shelf or to order or inquire about a book, please send an e mail to me, at, bookshop@fncv.org.au and I will reply as soon as I can. *Happy reading, Kathy*

Australian Bryozoa Vol 1 & 2 (ed. Cook, Bock, Gordon & Weave) describes Australia's 1200 known species of bryozoans. Bryozoans are aquatic animals that form colonies of connected individuals and can take on a variety of forms: some are bushy and moss-like, some are flat and encrusting and others resemble lace. Some bryozoans are of concern as marine-fouling organisms and invasive species, while others show promise as sources of anticancer, antiviral and antifouling substances. Volume 1 focuses on the biology, ecology and natural history of bryozoans, whilst Volume 2 looks at the taxonomy of Australian families. Please note, these two titles will not be available on the shelf and will need to be ordered in. **(HB, Vol 1 200 pp. & Vol 2 320pp., July 2018) Vol 1 RRP \$140, Member \$112 & Vol 2 RRP \$240, Member \$192.**



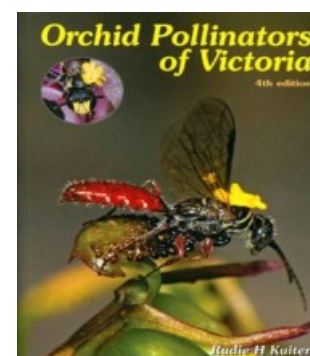
Faunaverse: Australian wildlife in poetry (Dudley & Sullivan) was created as a means of engaging with both children and adults about some of the special, obscure and misunderstood wildlife of Australia in a way that is both informative and entertaining. Using poetry ensures the book is fun to read for adults and kids alike and the stunning photographs accompanying the poems show the animals as the characters they are. The book contains 23 poems that give factual information about the animals and each poem is accompanied by a photograph and some further information **(PB, 52 pp., 2016) RRP \$24.95, Member \$20**

The Weed Forager's Handbook: A Guide to Edible and Medicinal Weeds in Australia (Grubb & Rowland) takes us into the world of our least admired botanical companions. Peel back the layers of prejudice and discover the finer side of the plants we call weeds. An astonishing number are either edible or medicinal, and have deep and sometimes bizarre connections to human history. Chapters include Top-20 Edible and Medicinal Weeds, Weedy Recipes, Weeds in the Garden and Appreciating Weeds. **(PB, 166 pp., 2013) RRP \$21.95, Member \$17.50**



The Australian Animal Atlas (Cronin & Westmacott) provides an entertaining and educational illustrated guide to Australia's amazing wildlife and its habitats. Come on a journey into the world of Australia's wildlife, exploring all the different habitats, from parched deserts to lush rainforests. Search for the animals hidden in each scene. Find out about the fish that walks, the sixth sense of the platypus, the deadly venom of the desert death adder, the strange table manners of the sea star, This environmental atlas of Australian animals by an expert team is full of fascinating facts and superb illustrations. **(HB, 48 pp., 2017) RRP \$29.99, Member \$24**

Orchid Pollinators of Victoria 4th ed (R. Kuiter). There is so much to learn about the world of orchids and the role which insects play in the pollination of such highly evolved plants. Without the wasps, bees and flies, orchids would not exist. The intriguing role insects play in orchid pollination is documented in this book. With more than 1,300 superb images, Rudie and his team show what they have been discovering about the hidden world of orchid pollinators. Over 100 additional images were added for this 4th edition. **(PB, 338 pp., 4th ed, Jan 2016) RRP \$90, Member \$72**





THE GALÁPAGOS ISLANDS REVEALED

13-30 Oct 2019

Join Field Nats, **Michèle Adler & Rod McMillan** (former gardening presenters on ABC radio) on their 16th (and last!) ultimate wild-life tour to **The Galápagos Islands.**

Be in arm's length of giant tortoises, marine iguanas, blue-footed boobies, playful sea-lions, Darwin's finches and MORE ... all in an amazing volcanic landscape.

Book now - only 8 places left. Small group.

The Galápagos Islands - like no other place on earth.

10 day Extension tour to **Cusco and Machu Picchu** also available.

For brochures and further information, please ring Michèle or Rod ...

Adland Tours 03 51 455 422 www.adland.com.au michele@adland.com.au

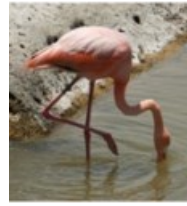


Photo: J. Broadberry



Spring cleaning

Eight club members attended the FNCV working bee on Saturday 6th October.

They were:

June Anton, Judith Sise, Sarah Patterson, Neil McLachlan, Sally Bewsher, Ray Gibson Karlo Lucic and Barbara Burns.

A lot was achieved. The office received a much needed spring clean, the garden was weeded and pruned, paths were swept, high ledges and shelves throughout the building were wiped down and general cleaning and tidying were carried out.

A correa was removed from the entrance area to enable us to construct a valuable fourth parking spot.

It was great to welcome two of our newer members. Thank yous must go to Judith for her delicious cake which kept up our strength and morale at morning tea time and to Barbara Burns for organising the activity.

Sally Bewsher

Extracts from SIG reports given at the last FNCV Council Meeting

Botany Group:

Meeting Thursday 20th September: In contrast to the picture given today by DNA informed phylogenetic trees for the Proteaceae family, in 1810 Robert Brown in London was concerned to clarify the genera, appealing to the 'natural' approach developed by French botanists 30 years before. Ken Griffiths introduced some of those scientists by showing how several big European botany museums and gardens present to the public. Seventeen people attended, including three guests.

Excursion Sunday 23rd September: Seven keen Botany folk ventured to The Brisbane Ranges in cool and cloudy conditions. Even near the car park many plants were found, in various stages of spring flowering: orchids, peas, hakeas, grevilleas.

Ken Griffiths

Day Group: Meeting Tuesday 28th August: Speaker Mark Smith made an excellent presentation on *The 'Big Five' animals & more in Southern Africa*. His talk which was illustrated with carefully selected, stunning images was very much enjoyed by the enthusiastic members who attended.

Fauna Survey Group: Meeting Tuesday 4th September: The meeting was attended by twelve members, who heard a talk by wildlife photographer Chris Farrell who has been recording individual Southern Right Whales. Chris uses high quality long focal length lenses when taking photographs from an aircraft or from a cliff top, and has added many records to the DEWLP data base. The pattern of the callosities on the head of Southern Right Whales makes identification of individuals possible. Some of the sites surveyed are the Great Ocean Rd, Warrnambool, Phillip Island and the Great Australian Bight.

Ray Gibson

Fungi Group: Our scheduled speaker, Dr Teresa Lebel, was unable to attend our meeting on 3rd September, so we were very grateful to Dr Sapphire McMullan-Fisher for filling in with a presentation titled "Macrofungal Survey of Brooklyn – Australian Wildlife Conservancy and Cairns". This survey, which took place from 2nd to 20th March 2018 in north-east Queensland, was carried out by Sapphire, Frances Guard and Matt Barrett. Sapphire showed photos of about two dozen of the many interesting fungi that were found. A number of these are yet to be identified. Several herbarium-quality collections were made, and it is intended that the results will be published in a booklet.

Virgil Hubregtse

Juniors' Group: Meeting 31st August: Firstly, we had a wonderful meeting in August celebrating 75 years of the Juniors' group. We also used this opportunity to invite Claire Ferguson, her husband Scott Ferguson and Robyn Goode to thank them for their wonderful job with the Juniors' Group over the last seven and a half years.

Max Campbell prepared a special speech for Claire and Robyn and on behalf of the club gave them a gift voucher from our Bookshop. The meeting was well attended by 17 members plus our special guests Claire and Scott Ferguson.

Excursion 8th of September: at Braeside Park with Robin Drury. We had a great excursion to Braeside Park with 21 members attending and 8 non-members; great participation. I was uncomfortable (initially) with the non-members arriving without previous bookings, but seeing those children so keen on the excursion it was not difficult for me to include them all. I am glad Robin was happy with a large number of participants. It is worth emphasising to members of the club that when inviting non-members to the Juniors' excursions, bookings are an essential part of the organisation for safety and organisational reasons.

We were really lucky with the weather during the excursion. We had a clear sky and the frogs did not disappoint us



Photo: P. Amaya

(Continued on page 12)

(Continued from page 11)

with their different calls. Eastern Common Froglets, Striped Marsh Frog and Southern Brown Tree Frog were amongst the frogs' calls we heard. We learned that the Ringtail Possums like to stay on the shrubs while the Brushtail Possums prefer to climb in taller trees. We were lucky to see them both. The children were excited using the night vision binoculars that were provided for them to use it in turns.

The sky was so clear that we identified Jupiter, Venus and Mars without much difficulty. I am sure all the children enjoyed the excursion.

Patricia Amaya



P. Amaya



P. Amaya

Editor's note:

The photo on the left is of a Common Brush-tail Possum, taken at Braeside park during the recent Juniors excursion. The possum is illuminated with a red spotlight.

The use of red lights or filters when spot-lighting is less intrusive and stressful to the animals as it does not dazzle them.

While it may initially take time to get used to using red light it still allows for good identification of wildlife and is a more responsible way of observing animals at night.

S.B.

Field Nats News 291



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