

BUTTERFLY CONSERVATION SA INC.

Founded 25th July 1998 Adelaide, South Australia.

NEWSLETTER

No. 85: August 2023



Chairman Gerry Butler receives our BCSA 25 year certificate from Deputy Premier and Minister for the Environment Susan Close MP at the Green Adelaide Forum
21st May 2023.



IN THIS ISSUE

- 25 years BCSA certificate.
- Contacts, Diary dates, web sites and membership.
- Brownhill Creek walk and visit to the Bee Hub.
- Excursion to Yundi.
- From the Chairman.
- AGM agenda.
- Nomination Form.
- Please think about volunteering for a position.
- Science Alive.
- Yellowish Sedge-skipper.
- Where butterflies find nectar.
- 2023 Environmental Awards.
- Public talks program 2023.
- Guest speakers Sept., Oct., Nov.
- What's for sale?
- STEM day out.

WELCOME TO NEW MEMBERS

Monina Gilbey
Taryn Keddle
Michelle Kaye
Barb Lane
Ben Weber
Roslyn Mathie
Lynda Demagd
Charlotte Sarre
Alex Coombe
Martin Schumacher
Jessica Bouman

JUST ANNOUNCED

On behalf of the Green Adelaide Board, I am delighted to inform you that your project, 'Herding Caterpillars - Festival of Butterfly Discovery, VR, Art and Science', has been approved for funding of \$27,918.00 (GST exclusive).
Professor Chris Daniels
11th August, 2023



BCSA thanks Konica Minolta for their generous support to BCSA.
Konica Minolta is a Landcare Australia National Partner

Cover photo: Jan Forrest.

BUTTERFLY CONSERVATION SA Inc.

An affiliated organisation of the South Australian Museum and Friends of Parks.

Postal Address; PO Box 4, DAW PARK 5041 South Australia

Email: info@butterflyconservationsa.net.au

Chairman: Gerry Butler - chairman@butterflyconservationsa.net.au 0407972149

Acting Secretary: Jan Forrest OAM - secretary@butterflyconservationsa.net.au

Interim Treasurer: Karen Rodda - treasurer@butterflyconservationsa.net.au

Membership: Gil Hollamby - membership@butterflyconservation.sa.net.au

Newsletter Editor and Public Talks Convener: Jan Forrest OAM

- editor@butterflyconservationsa.net.au 0419990430

Book sales: Sarah Macdonald - publications@butterflyconservationsa.net.au

Website: Lionel Edwards - web@butterflyconservationsa.net.au

Committee: Bernadette Johnson, Bryan Haywood (endangered species advocate),

Mike Moore, Ann Winter.

On-line sales: Pushpa Osborne - onlineorders@butterflyconservationsa.net.au

Friends of the Chequered Copper Butterfly - co-ordinator Gerry Butler.

Newsletter Proofreader and Editor - Judith Lydeamore

Consultants: Roger Grund OAM and Dr. Peter McQuillan.

Public Officer: Beth Keane.

DIARY DATES

COMMITTEE MEETINGS: Meetings are normally held bi-monthly

(usually the second Monday of the month) at 6.00pm at a committee member's home.

All members are welcome to attend. If you would like to attend please contact

Chairman Gerry Butler on 0407972149.

PUBLIC TALKS PROGRAM 2023: first Tuesday March – November, at the Plympton Community Centre, 34 Long Street, Plympton, 6.15pm for a 6.30pm start to 8.30pm. with an option for some talks to be viewed via Zoom. Please watch your email for information regarding public talks, or visit <https://butterflyconservationsa.net.au/events/list/> at any time.

NEXT TALK: 5th Sept. 6.30pm BCSA AGM 7.00pm Public Talk *It's time to protect our trees.*
Presented by Dr. Stefan Caddy-Retalic, Adjunct lecturer, School Biological Sciences, University of Adelaide.

WEB SITES

BCSA official website: Butterfly Conservation SA - <https://butterflyconservationsa.net.au/>

South Australian Butterflies and Moths: <https://saboutterflies.org.au/home/>

YouTube: https://www.youtube.com/channel/UC3LZ9HPh1-DIH-01YIObkiA?view_as=subscriber

Butterflies Australia <https://www.butterflies.org.au/external/home>

Moths and Butterflies Australasia Inc. (MABA): <https://maba.org.au/>

MEMBERSHIP ENQUIRIES:

membership@butterflyconservationsa.net.au or online:

www.butterflyconservationsa.net.au/product/become-a-member/

Membership payments:

\$10pa - plus \$10 for a mailed newsletter:

to Treasurer: PO Box 4, DAW PARK 5041.

Note: payments made after AGM (September) are credited for the following year.

Cheques to be made out to:

Butterfly Conservation SA Inc.

EFT details: BSB 633-000

Account No: 152785838

Bank: Bendigo Bank.

Account Name: Butterfly Conservation SA Inc.

Please email Treasurer if paying by direct debit:

treasurer@butterflyconservationsa.net.au

with name, amount and item.



<https://www.facebook.com/ButterflyConservationSA/>





WITH APPRECIATION

The Butterfly Conservation Committee acknowledges with appreciation the donation made to the organisation by Honorary Life Member Roger Grund OAM of the funds derived from the sale of his microscope.

Green Adelaide Volunteer gathering
21st May 2023.

SPRING WALK AT WIRRAPARINGA - BROWNHILL CREEK AND THE BEE HUB

Sunday 29 October 2.00-4.00pm

Venue: The Bee Hub at Brownhill Creek, 214 Brownhill Creek Road, Brownhill Creek 5062. (The Bee Hub appears on Google Maps).

Enjoy a short, mainly flat walk to the habitat of the small subpopulation of nationally endangered southern brown bandicoots (*Isodon obesulus*).

Since 2021, experts, volunteers and community organisations have been working to improve this habitat, providing an example of bushcare that manages introduced plants that are providing protection and food for bandicoots (blackberry in particular) while caring for and encouraging the spread of native raspberry (*Rubus parvifolius*) and other endemic natives. We'll likely find some lovely butterflies and other pollinators along the way.

After the walk, afternoon tea at the Bee Hub, where you can see an observatory bee hive, native bee wall and native resident resin bees and displays about the bandicoot project as well as moths that have visited the Bee Hub Moth Nights.

Cost: \$20 full adult; \$15 concession; children under 12 years \$5.

Parking: Parking will be available in 2 small car parks situated on the left of the road (heading into the valley) one just before and one just after the Bee Hub. The car parks will be marked with balloons.

Wear comfortable walking shoes!

Register via this link. This will also be emailed to members prior to the event.

<https://events.humanitix.com/spring-walk-at-wirraparinga-brownhill-creek>

EXCURSION YUNDI NATURE CONSERVANCY

Up for a bit of exploring?

Put 10.00am - 4.00pm on November 25th in your calendar

If there is sufficient interest, the option of running a light sheet in the evening is being considered. These sheets attract moths and other insects from around 8.30 - 10.00pm.

Yundi Nature Conservancy is between Willunga and Mount Compass, off the Victor Harbor Road, and is a private protected area that includes two Heritage Agreement areas. One a Fleurieu Peninsula Swamp (critically endangered plant community under the EPBC Act) and the second a southern Mount Lofty Ranges stringy bark woodland.

The swamp is quite complex – with stick insects, praying mantis, dragon flies, damselflies as well as at least five different species of swamp moth/butterfly. At that time the tea tree should be flowering and attracting plenty of insects including sedge skippers.

The vertebrate fauna has been documented however less is known about the insects. We plan to document differences between insect diversity and populations between healthy scrub, areas being restored and degraded areas.

Meet at the entry to the property at 10.00am.

Wear sturdy shoes or boots, long trousers and a hat.

BYO lunch/dinner.

and don't forget to bring your camera.

If you don't have transport, let us know your suburb and we'll see if we can organise a car pool.

If you'd like to join us on this mini adventure, please contact Gil at info@butterflyconservationsa.net.au by 1st November with your contact details and names of others coming with you. Also please advise if you would like to stay on after 4.00 for a nocturnal adventure.

Prior to the excursion you will receive confirmation of your attendance and any further information.

FROM THE CHAIRMAN

Dear Members and friends,

We look forward to our 2023 AGM celebrating our 25th anniversary as an incorporated association.

Butterfly Conservation SA has advocated for the conservation and management of Lepidoptera (butterflies and moths) since 1998 and looks forward to a positive future.

Our Committee has worked hard to ensure that we have a strong organisation and a positive outlook on the future.

2022-2023 has been a very stimulating and challenging year with the staging of the Herding Caterpillars VR experience at the Nature Festival in October 2022 and receiving a Green Adelaide Grassroots grant to develop the Caterpillar App.

Our resources are in constant demand, whether it is delivering talks to the public or providing our books for online and retail sale. Our 2 websites are regularly visited by a wide demographic and these resources play a significant role in encouraging people to care for the environment.

We need your support by way of financial membership, but also by your service on the Committee. Please consider nominating and play your part.

Cheers

Gerry Butler,
Chairperson



AGENDA BUTTERFLY CONSERVATION SA INC 2023 AGM

**5th September, 2023 6.30-7.00pm
at the Plympton Community Centre,
34 Long Street, Plympton.**

Welcome and Acknowledgement to Country

Chairman

Attendance Register should be completed by all those in the meeting

Minutes of the previous AGM - 6 September 2022

Acceptance

Business Arising

Reports

Chairman's Report for FY 2021-22 – Chairman Gerry Butler

Treasurer's Report for FY 2021-22 – Acting Treasurer Karen

Rodda – Setting of membership fees for 2024:

That the Membership Fee for the 2024 calendar year shall be \$20 for all members who receive an email membership, with a supplementary \$10 for those members who wish to receive a posted newsletter.

Moved: Second:

That the Life Member fee for the 2024 calendar year shall be \$300. Moved: Second:

Nominations received for Honorary Life Membership

That these nominations be accepted.

Moved: Second:

Business

Election of Office Bearers:

Chairman

Secretary

Treasurer

Committee Members (minimum of 2)

Auditor – Nominee Tim Major of Lee Green

Public Officer

Butterfly Conservation Fund Members

Other Business

Business placed on the Agenda before the commencement of the meeting

Next Meeting: 3rd September 2024

Members are advised that the ANNUAL GENERAL MEETING and PUBLIC TALK will be held at the Plympton Community Hall and via ZOOM on 5th September, 2023 at 6.30pm.

Members for whom we have an email address will be advised of the Zoom arrangements prior to the meeting.

NOMINATION FORM for the 2023 – 2024 year

Completed Nomination Forms can either be emailed (secretary@butterflyconservationsa.net.au) or posted (PO Box 4, Daw Park, SA 5041), or hand delivered to the Secretary at AGM. You may nominate yourself.

I (name of nominator), being a member of Butterfly Conservation SA,

hereby nominate:

to the position of: Chairperson, Secretary, Treasurer, Committee Member,
Butterfly Conservation Fund Committee members (3). (please circle)

Tasks on the committee can include: minute secretary, web master, social media co-ordinator, public talks convener, newsletter editor, online sales manager and publications manager. If you have an interest in assisting in one of these roles (please circle).

Signed: (Nominator) Seconded by:

Nomination accepted:

If you would like to talk to someone about any of these office bearer and committee positions please contact the Chairman Gerry Butler, Acting Secretary Jan Forrest OAM or any other committee member.

Now is not the time to sit back and let someone else do it as we need your help now to ensure this organisation continues to thrive.

The future is very exciting however we need a team to do it, please don't leave this work to just a few we need energetic and committed members to step up and help.

It's not all work, our meetings are quite social and if wine is your thing please bring some along to share.

See page 2 for contact details.



STEM DAY OUT 'SCIENCE ALIVE' 4th August, 2023. Volunteers, Sue Gould, Jody Moate, Sarah Macdonald, Gerry Butler.



'SCIENCE ALIVE' 6th August, 2023. Volunteers, Jan Forrest, Nyneke Vanderburg, Sarah Macdonald, Sue Gould and Gerry Butler



'SCIENCE ALIVE' 5th August, 2023. Volunteers, Pushpa Osborne, Gerry Butler, Sarah Macdonald, and Taryn Keddle.



INTRODUCING THE YELLOWISH SEDGE-SKIPPER (*HESPERILLA FLAVESCENS*) TO GOLF COURSES

Monina Gibney

It is a long-held view by many people that golf courses have a negative effect on the environment. They are seen as dead spaces with little to no biodiversity that are only used by a relatively small group of privileged people.

As the Biodiversity Manager at Glenelg Golf Club, I can tell you that this certainly is not the case at a number of courses in Adelaide. There are many golf clubs around the world working to better the environment and contribute to urban biodiversity.

In Adelaide, three tier-one golf clubs: Glenelg, Royal Adelaide and Grange are working on creating habitat for the Yellowish Sedge-skipper (YSS) (*Hesperilla flavescens*). With advice from Matt Endacott at Green Adelaide and Alex Stolarski from Entosearch, these clubs have been planting groups of its habitat plant around their courses. There are also some significant remnant patches of vegetation on a number of these courses, which we are working to maintain and restore.

The YSS was last seen in Adelaide in 1985. It is thought that the sedge skipper became extinct in Adelaide due to indiscriminate spraying and lack of its habitat plant: Chaffy Saw Sedge (*Gahnia filum*).

For the last 20 years, work has been undertaken to assess habitat and the feasibility for reintroduction of the YSS.

Tony Flaherty from Green Adelaide has been working with Alex Stolarski, who has been contracted by Green Adelaide to collect larvae from healthy populations of the sedge skipper in other parts of South Australia to release them in Adelaide. Most of the releases have been conducted north of Adelaide in the Greenfields Wetlands and south of Adelaide in the Aldinga Washpool.

Alex believes that hydrology plays a part in the breeding success of the YSS. He believes that the vigour and health of the *Gahnia* play a part in the quality of the plant for larval food and areas that stay damp in summer provide better *Gahnia*. Alex has also observed that the skippers will fly around a plant before laying their eggs, so planting at a space of at least 1m between *Gahnia* allows for these circular flying inspections.

An accidental burn from an errant firework in *Gahnia* plantings at the Aldinga Washpool confirmed suspicions that fire had a role in maintaining these sedgeland for YSS breeding. Surprisingly, it was discovered that the burnt *Gahnia* led to more successful breeding. The soft, fresh growth was perfect for the caterpillars to create their silk cocoon in the foliage – the caterpillars silk up stems of the *Gahnia* and join them together to create a shelter.

To increase breeding success of the YSS in the Aldinga Washpool, Matt Endacott, with NPWS fire crew organised an ecological burn of small patches of *Gahnia* to assist in fresh growth for the YSS. The ecological burn was conducted by local Kaurna contractors.

In the last few years, groupings of *Gahnia filum* have been planted at Glenelg Golf Club, Grange Golf Club and at Royal

Adelaide Golf Club. As Royal Adelaide has a remnant *Gahnia* wetland area, there have been a few releases of the sedge skipper and larvae at Royal Adelaide – with evidence that the YSS is breeding.

Golf courses can be likened to a controlled natural environment. Being on private land means we can control what we plant and how we manage vegetation areas. If we need to flood an area, we flood an area, or if we need to burn plants, we can burn plants.

Before the releases at Royal Adelaide Golf Club, Matt asked Course Superintendent, Nathan Bennett, to trim down and burn some of the *Gahnia* in the remnant wetland area. Nathan was able to organise his staff to do this within a few days. Member news updates and a sign at the tee helped club members learn about the sedge skipper and reminded them not walk through the wetland. There are plans to flood the wetland in summer this year to increase the chances of a successful breeding season.

Grange and Glenelg Golf Clubs are now also planting groups of Bitter Bush (*Adriana quadripartita*) to provide habitat for the Bitterbush Blue Butterfly. In fact, Glenelg has a group of *Adriana* which was accidentally burnt a few years ago and the *Adriana* flourished within a month. *Adriana* is now naturally seeding in this area.

Glenelg, Royal Adelaide, Grange and Kooyonga have received a Green Adelaide Grassroots Grant for establishing a plant preservation partnership and creating habitat connectivity on Adelaide's sand dune courses. The aim is for all our clubs to work together to not only create habitat, but protect some of Adelaide's last remaining indigenous plant populations. We see ourselves creating an ark – currently for plants – and we are hoping to add rare butterflies – and other creatures – to that ark.

Glenelg Golf Club's environmental work:

<https://tinyurl.com/3x4b4jhw>

Royal Adelaide Golf Club: <https://www.royaladelaidegolf.com.au/cms/>

Green Adelaide's butterfly programs:

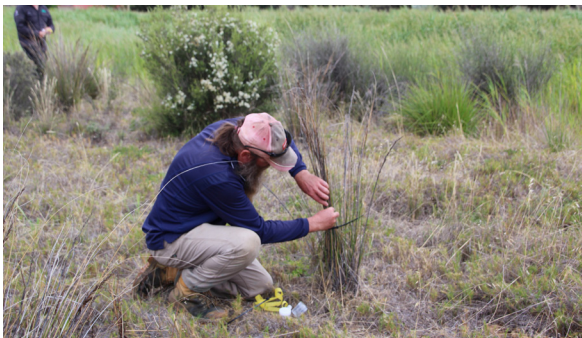
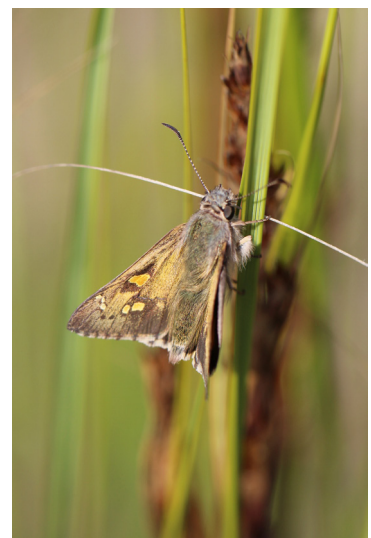
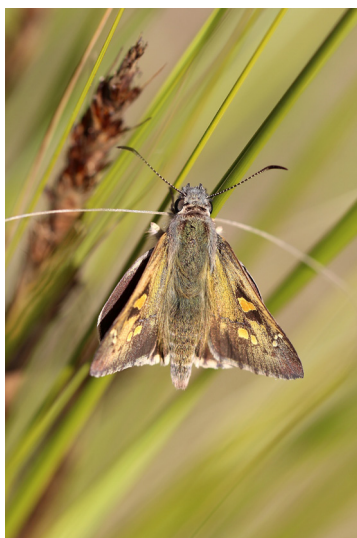
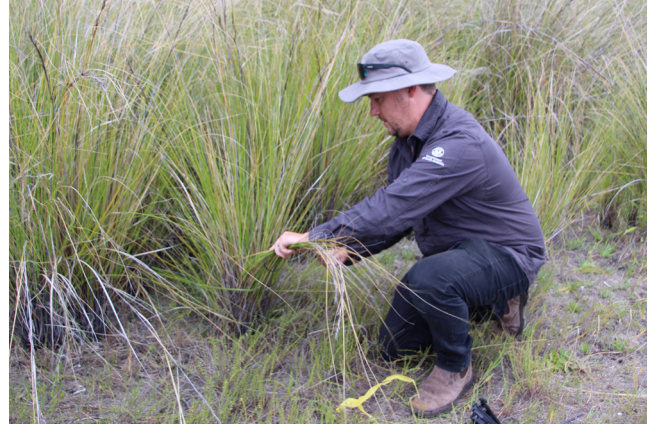
<https://www.greenadelaide.sa.gov.au/news/2022-coastal-butterflies-adelaide>

Sustainable golf around the world:

<https://sustainable.golf/highlights/>



Photos: Matthew Endacott. Larva iNaturalist.
Roger Grund, Adult female.
Todd Berkenshaw. *Gahnia filum*.



Photos: Monina Gibney. Release of Yellow Sedge-skipper caterpillars on Gahnia foodplant at the Royal Adelaide golfclub.

WHERE BUTTERFLIES FIND NECTAR

Bryan Haywood

In November 2021, Dr Peter McQuillan came to Adelaide and spoke about **Why nectar is important to butterflies and where they find it.**

This was an excellent and informative talk encouraging everyone to record what native plant flowers our Australian butterflies are feeding on.

As Peter said, "Nectar is the major energy source for butterflies, but species differ greatly in the range of flowers they exploit. Recent research has shown that only a small range of herbs, shrubs and a few trees account for most visits by butterflies".

So, let's continue to photograph and talk about the native plant flowers our butterflies are using especially

as this knowledge can help BCSA and other invertebrate advisors to adequately provide nectar for butterflies visiting a garden or restoration site in the future.

The following list is of thirteen native Australian butterflies which were seen feeding on native plant flowers during the period including January 2020 to January 2023 (in southern South Australia and western Victoria).

Twelve different plant families were used and the most commonly used plant was *Kunzea pomifera* with six butterfly species observed feeding on those flowers.

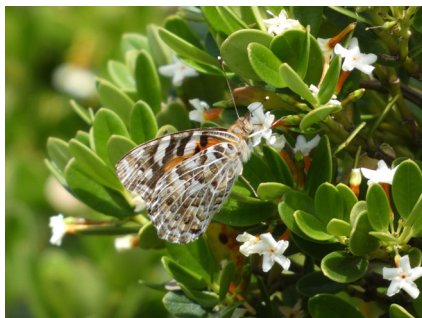
Family	Common Name	Plant flower seen feeding on (Family)
Nymphalidae		
<i>Heteronympha cordace wilsoni</i>	Bright-eyed Brown	<i>Samolus repens</i> (Pr)
<i>Heteronympha merope</i>	Common Brown	<i>Bursaria spinosa</i> (Pl)
		<i>Kunzea pomifera</i> (My)
		<i>Calytrix tetragona</i> (My)
		<i>Melaleuca lanceolata</i> (My)
<i>Geitoneura klugii</i>	Marbled Xenica	<i>Calytrix tetragona</i> (My)
		<i>Kunzea pomifera</i> (My)
<i>Vanessa itea</i>	Australian Admiral	<i>Alyxia buxifolia</i> (Ap)
		<i>Kunzea pomifera</i> (My)
		<i>Melaleuca lanceolata</i> (My)
<i>Vanessa kershawi</i>	Australian Painted Lady	<i>Alyxia buxifolia</i> (Ap)
		<i>Leptospermum myrsinoides</i> (My)
		<i>Montia australasica</i> (Po)
		<i>Pimelea glauca</i> (Th)
Lycaenidae		
<i>Zizina labradus</i>	Common Grass-blue	<i>Senecio pinnatifolius</i> (Co)
		<i>Scaevola crassifolia</i> (Go)
		<i>Pelargonium austral</i> (Ge)
		<i>Kunzea pomifera</i> (My)
<i>Lucia limbaria</i>	Grassland Copper	<i>Oxalis perennans</i> (Ox)
<i>Cyprotus cyprotus</i>	Copper Pencilled-blue	<i>Leptospermum myrsinoides</i> (My)
<i>Candalides hyacinthica simplex</i>	Western Dusky-Blue	<i>Scaevola crassifolia</i> (Go)
		<i>Senecio pinnatifolius</i> (Co)
		<i>Tricoryne elatior</i> (Li)
Pieridae		
<i>Delias aganipe</i>	Spotted Jezabel, Wood White	<i>Alyxia buxifolia</i> (Ap)
<i>Belenois java</i>	Caper White	<i>Kunzea pomifera</i> (My)
Hesperiidae		
<i>Hesperilla donnysa</i>	Variable Sedge-skipper	<i>Samolus repens</i> (Pr)
<i>Taractrocer papyria</i>	White-banded Grass-dart	<i>Pelargonium austral</i> (Ge)

NOTE: Plant family codes

Ap = Apocynaceae
Co = Compositae
Ge = Geraniaceae

Go = Goodeniaceae
Li = Liliaceae
My = Myrtaceae
Ox = Oxalidaceae

Pi = Pittosporaceae
Po = Portulacaceae
Pr = Primulaceae
Th = Thymelaeaceae



Photos: Bryan Haywood. From top left. *Vanessa kershawi* (Australian Painted Lady) on *Alyxia buxifolia* Robe Obelisk 30 Dec 22. *Candalides hyacinthina* (Western Dusky-blue) on *Scaevola crassifolia* Robe Obelisk 30 Dec 22. *Heteronympha merope* (Common Brown) on *Bursaria spinosa* 2023. *Geitonura klugii* (Marbled Xenica) on *Calytrix tetragona* Minimay western Vic. Dec 22. *Heteronympha merope* (Common Brown) on *Kunzia pomifera* EW Dec. 21.

2023 ENVIRONMENT AWARDS

Joshua Owen

Local butterfly conservationist Gerard Butler (at centre of photo) has been awarded a **Certificate of Commendation** at the 2023 SA Environment Awards.

Mr Butler was nominated for the Pelzer Prize which is awarded to unsung environmental heroes for their work in restoring landscapes, creating habitats for wildlife, connecting people to nature, or cleaning up parks, beaches, and waterways.

It was Mr Butler's second nomination for the prize and, whilst he didn't win, he received a certificate of commendation for his work in butterfly conservation.

"To be nominated again was lovely," Mr Butler said.

"And when I saw the list of my fellow nominees, I went, 'Oh my God, fancy being a part of that peer group'."

Mr Butler has been working with Butterfly Conservation South Australia (BCSA) for 13 years and has been the organisation's chairperson for five years.

During that time, he has been involved in publishing educational literature, giving talks in the community and at schools, planting butterfly food plants, and other projects aimed at conserving butterflies, moths, and their habitats.

One of these projects related to raising awareness of the chequered copper butterfly which is native to Australia and was rediscovered in Victoria Park in 2011.

Mr Butler thought that it was this work that had earned him the nomination for the Pelzer Prize.

In 2021, Mr Butler co-created a theatrical performance based on the lifecycle of the chequered copper called *Herding Caterpillars*, and BCSA later received a government grant to turn the play into a virtual reality experience.

BCSA partnered with CDW Animation, an animation company based in Adelaide, and used motion capture technology at Flinders University's production space The Void, to bring the project to life.

The project was taken to Stuttgart, Germany by Flinders University to be promoted internationally and was a finalist in the 2023 Adelaide Parklands Art Prize.

"It has lifted the understanding of this butterfly one thousand-fold over the last couple of years," Mr Butler said.

This year was only the third year that the Pelzer Prize has been awarded.

The prize was created by Green Adelaide, an urban environment organisation established by the state government in 2020 to create a cooler, greener, and wilder city and promote a pro-environmental culture change.

A spokesperson from Green Adelaide, said that it was important that conservationists like Mr Butler were recognised for their efforts through awards like the Pelzer Prize.

"The [environment sector in Adelaide] is a very humble sector, People just work away ... without any expectation of recognition. It's great to bring all their effort and showcase it to the sector to show all things that are happening ... for the Pelzer Prize and the other awards."

The Pelzer Prize is named after August Wilhelm Pelzer, Adelaide's first city gardener, who transformed the city's landscape over his 33 years in the role by planting thousands of trees in the parklands.

The prize is one of six prizes awarded at the annual SA Environment Awards.



Butterfly Conservation South Australia Inc.

presents the thirteenth

PUBLIC TALKS PROGRAM 2023

On the first Tuesday of the month March to
November at 6.15pm for a prompt 6.30pm start.

At the Plympton Community Centre

34 Long Street, Plympton.

(200 metres E of Marion Rd, and 300 metres N of Anzac Highway).

Public transport options for Plympton include:

Bus from the city via Anzac Highway.

Routes: 245, 248, 262, 263, 265, M44, N262.

Closest stop is Stop 9, then approximately 350 metre walk along Long Street.

Bus from the city via Marion Road.

Routes 100, 101, H20. Closest stop is Stop 10 (east side is approximately 100 metres south of Long Street). Stop 10 (west side is on the other side of Moringie Ave. approx. 100 metres north of Long Street). Then approx. 250 metre walk along Long Street.

Entry by donation (minimum of \$5).

Bookings not required

Please bring supper to share.

Bring your own cup, tea/coffee will be supplied.

Meetings should conclude by 8.30pm.

At the start of each meeting a ten minute presentation on a 'Butterfly of the Month' will be given by a BCSA committee member.

DON'T FORGET TO BYO CUP.

Photo Robert H. Fisher: Rayed Blue butterfly *Candalides heathi*



Flinders Ranges, Gammon Ranges and Stony Plains to investigate changes within species, communities and biomes to better understand the interrelationships and drivers of this change."

Prior to embarking on his PhD, Stefan worked in environmental policy for the Commonwealth government and managed science projects for the University of Adelaide and Terrestrial Ecosystem Research Network (TERN).

His primary interest is in conducting research to address real world problems and bridging the gap between ecological theory and the current needs of land managers.

3rd Oct. *European Bees, friend or foe*

After a brief introduction to the life cycle of the European honeybee, beekeeper Rossi von der Borch from the Bee Society of South Australia will provide a glimpse into the collective decision-making processes that underpin every aspect of life in a honeybee colony and will consider a range of opinions on the place of the European honeybee in Australia.



Honeybees make a vital contribution to the pollination of many crops, but do they harm the native environment? In particular, do they out-compete native bees and other native pollinators for pollen and nectar resources?

These questions will be illustrated with local South Australian stories from recreational and commercial beekeepers, native bee researchers and conservationists.

An excursion to explore the 'Bee Hub' and walking trail at Brownhill Creek will be a great follow up from this talk. See page 3 for details.

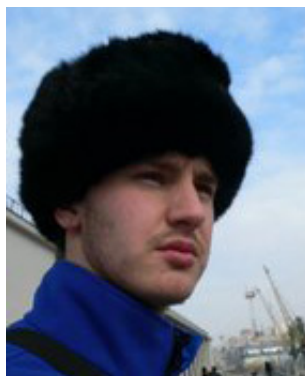
5th Sept. 7.00pm *It's time to protect our trees.*

Dr. Stefan Caddy-Retalic, Adjunct lecturer, School Biological Sciences, University of Adelaide will provide an overview of studies undertaken to review the urban tree protection laws across Australia in order to assist with best practice tree protection.

Stefan's work focuses on how to effectively manage ecosystems in the face of climate change. He has a particular interest in urban trees and is interested in bridging the gap between scientists and government.

"As a scientist I integrate traditional ecological survey techniques (vegetation surveys, invertebrate trapping and arboriculture assessments) with cutting edge technology (stable isotopes, DNA barcoding and remote sensing) to integrate species change from a population to landscape level."

"My field sites span a strong climate gradient from the south coast of South Australia through the Mt Lofty Ranges,



7th Nov. *Climate change and vegetation responses.*

Presented by Professor Robert S. Hill, Dept. Ecology and Evolutionary Biology, University of Adelaide.

Our climate is now changing at an unprecedented pace and the impacts will be severe. What should we do? There are some clear answers that will help us to be prepared for what is coming.

Professor Robert Hill is a graduate of the University of Adelaide. He completed his Ph.D. on Tertiary plant macrofossils in 1981, and his D.Sc. on the interaction between climate change and the evolution of the living Australian vegetation in 1997.

In 2003 he became Head of the School of Earth and Environmental Sciences and was appointed to his current position of Executive Dean in September 2006.



During his career he has won many awards including the Clarke and Burbidge Medals for his research into the impact of long-term climate change on the evolution of Australian vegetation. He is currently Editor in Chief of the Australian Journal of Botany.

Professor Hill has had a profound impact on the study of Botany in Australia. He has been instrumental in raising the profile of modern botanical studies through his own research which is of the highest international standard, through the training of numerous honours and postgraduate students, many of whom now hold botanical research positions in their own right, and through his distinguished service to botanical societies, organisations and government agencies.

His botanical research has made significant contributions to the areas of palaeobotany, plant systematics, plant eco-physiology and the application of research from these areas to interpreting changes that have occurred to the Australian flora through evolutionary time.

He has had a lifetime interest in the evolution of the vegetation of Australia and Antarctica. He has published more than 125 refereed journal papers, 35 book chapters, several symposium papers and has edited or co-edited four books, including *The History of the Australian Vegetation* (Cambridge University Press), *Ecology of the Southern Conifers* (Melbourne University Press), *The Ecology and Biogeography of Nothofagus Forests* (Yale University Press), and *Vegetation of Tasmania* (Australian Biological Resources Study).

He is best known for his research on the fossil history of the southern beech, *Nothofagus*, and the southern conifers. His research on the fossil history of *Nothofagus* has been critical in refining our understanding of its evolution and has led to a major revision of our understanding of the biogeography of this critical southern genus.

This talk will be a ticketed event with catering provided. Further details to be advised via email to BCSA members and at the October Public Talk.

BUTTERFLY CONSERVATION SA AGM at the PLYMPTON COMMUNITY CENTRE and via ZOOM

5th SEPTEMBER, 2023 at 6.30pm

There will be **VACANCIES** FOR CHAIRMAN, SECRETARY and TREASURER this year as well as COMMITTEE MEMBERS.

If you want to progress our exciting and enthusiastic organisation please nominate for the committee or for one of these positions.



WHAT'S FOR SALE? - IN OUR ON-LINE SHOP

NEW LIMITED STOCK: 25th ANNIVERSARY HATS: Beige, broad brim, BCSA 25th logo, chin strap. \$20

BOOKS: *"Caterpillars, moths and their plants of southern Australia"* Published BCSA 2019. Our price \$30, plus postage.

"Attracting butterflies to your garden, what to grow and conserve in the Adelaide Region" 2nd EDITION

Published BCSA 2016. Our price \$25 (financial members may purchase a book for \$20) plus postage.

"The Making of a Monarch" by Linda Shmith. Cost \$20 plus postage.

DVD: "Butterfly Garden" produced by Tracy Baron and Carolyn Herbert - \$20 each (BCSA financial members price \$15) plus postage. Limited stock available.

Posters currently unavailable - check before ordering - see page 2.

POSTERS: *"Spiders and their allies of the Adelaide Region"* Published BCSA 2014. \$10 a set of two, plus postage.

"Moths of the Adelaide Region" Published BCSA 2016 \$10 Set of four A3 plus postage. Free download available.

Single posters: Published Nick Birks *"Bats of SE South Australia"* and *"The Bilby - Endangered Species"* posters are available for \$5 each, plus postage.

FREE Orchid Posters. Plus postage. Posters are free to schools, but incur postage.

SITE SIGNS: To obtain an application form to register a butterfly site click on the site sign logo. Cost \$60 includes postage.

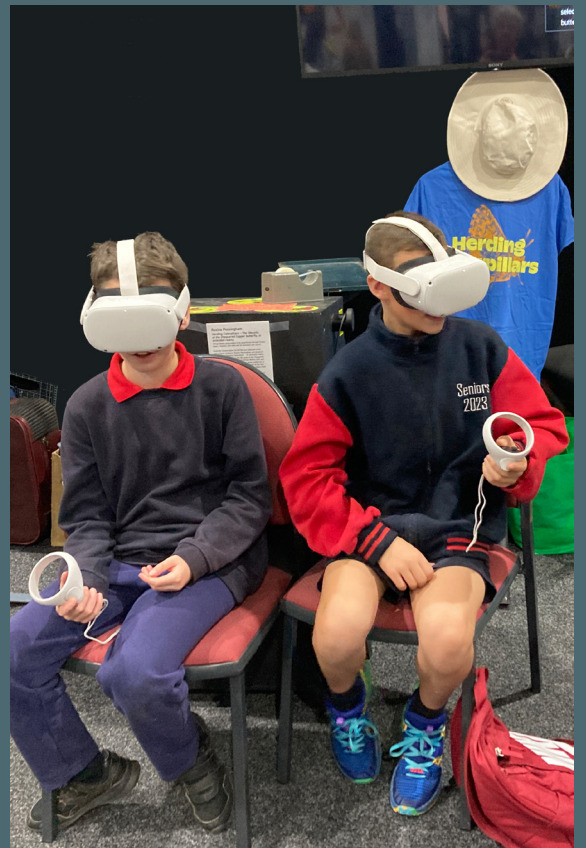
PLANT TAGS: See list and form available on website. \$2.00 per tag, includes plastic stake and postage.

Plant Tags Currently unavailable - check before ordering

If you would like become a member, order any of our merchandise, including books, plant tags, site signs or posters, check out the **ON-LINE STORE** at <https://butterflyconservationsa.net.au/shop/> and sign up for a membership/book deal. For queries email: info@butterflyconservationsa.net.au.



SCIENCE ALIVE!



STEM DAY OUT

4th August 2023 Adelaide Showgrounds

Adelaide's Science Alive! Stem Day Out provided Year 7-12 students a window into the wide variety of STEM careers now available and Butterfly Conservation SA and Bring Back the Butterflies were there.

Photos: Jan Forrest OAM