

Alice Springs Field Naturalists Club Newsletter



Hakea chordophylla, Bootlace Tree. This was one of the Latin names discussed by Cyd Holden at the ASFNC February presentation. Hakea is named after a German botanist Baron Christian Ludwig von Hake, *Chorde* meaning "gut", "string of a musical instrument", "twine" or "rope" and *phyllon* meaning "leaf". It is distributed fairly widely in the NT, as well as across WA and Qld. See page 3.

Meetings are held on the second Wednesday of each month (except December & January) at 7:00 PM at Higher Education Building at Charles Darwin University. Visitors are welcome.

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NEWSLETTER

The next newsletter will be April 2019.
The deadline for the next newsletter will be 23 March 2019.
Please send your contributions to Barb Gilfedder: bjfedders@gmail.com

Please contact leaders if you intend going on any field trips.

ALICE SPRINGS FIELD NATURALISTS CLUB

Wednesday 13 March.

ASFNC Monthly get-together at 7.00pm in the lecture theatre in the Higher Education Building at CDU. **Simon Ward** and **Robyn Delaney** will be taking us along on their 16 day walk from Finke Gorge NP to Watarrka NP in July 2019. All welcome. Presentation followed by tea, coffee and a light supper, and a brief general meeting.

Wednesday 10 April.

ASFNC Monthly get-together at 7.00pm in the lecture theatre in the Higher Education Building at CDU. **Billy Ross** will be talking about his research into Quolls. All welcome. Presentation followed by tea, coffee and a light supper, and a brief general meeting.

AUSTRALIAN PLANT SOCIETY ALICE SPRINGS

apsalicesprings@yahoo.com.au>

Wednesday 6 March 7.30pm at OPBG

AGM, followed by a presentation by Doug McDougall about his time at Jerusalem Botanical Gardens where he was based for 6 months last year. He will also take us to his favourite natural places in Israel, from the alpine regions in the north to desert canyons in the south. Light supper following. All welcome.

Alice Springs Field Naturalists Club Committee Members

President	Barbara Gilfed	lder 8955 5452	Treasurer	Neil Woolcock	8955 1021
Vice-President	Lee Ryall	0417 401 237	Property Officer	Rosalie Breen	8952 3409
Secretary	Anne Pve	0438 388 012	Public Officer	Anne Pve	0438 388 012

Committee Members: Robyn Grey-Gardner 89 52 2207, Margaret Friedel 0417 849 743, Simon Brown 0429 359 593

Some other Club Responsibilities: Newsletter – Barb Gilfedder, Minutes Secretary – Connie Spencer,

Facebook Organiser - Colleen O'Malley, Website - Pamela Keil 8955 0496 and Robyn Grey-Gardner 8952 2207

Large-tailed Nightjar in Katherine

Jenny Purdie

Steve came home with a young bird wrapped in a cloth, which he picked up in our neighbour's driveway saying it must have fallen out of the nest. We identified it as a Large-tailed Nightjar and read they nest on the ground! He took it straight back (which he always intended to do) and placed in the grass near the driveway and hopefully its parents found it.

It didn't have the spots of adults but the blue feathers looked the same



ASFNC Presentation – 13 February 2018.

Cyd Holden "Basic Botanical Latin"

Many thanks to Cyd for this fascinating and humorous talk.

We have used Cyd's hand-out and great word lists to share it in the newsletter with those unable to attend. Ed.

Why use a scientific name?

Common names often seem easier to remember than scientific names, but they are not as precise. Not only can a common name refer to very different plants, conversely a single species can have more than one common name. This can lead to confusion, and potentially to serious problems if people confuse weedy or poisonous species with harmless species.

For example - besides the ordinary garden roses (genus *Rosa*), how many other kinds of plant have the word 'rose' in their name?

- Wood Roses (several species in family Convolvulaceae)
- The Rose of Sharon (this name used for at least three different plants by different people: *Hypericum calycinum*, *Lilium candidum* and Tulipa agenensis subsp. *boissieri*)
- The Rose Geranium (*Pelargonium X asperum*)
- Sturt's Desert Rose (Gossypium sturtianum)
- The Christmas Rose (Helleborus niger), and
- Our Native Rose (Boronia serrulata), which is also known as the Rose Boronia.

Latin was used as the language for scientific names because it is considered a "dead" language. This means no new words or slang are created or changed through the years.

How do we classify a plant?

The act of classification can be defined as 'the grouping of individuals so that all the individuals in one group have certain features or properties in common'.

Classifications should have predictive value, that is, they should tell us something about the object being named and its features. Take, for example, New South Wales's floral emblem, the Waratah. It is classified scientifically as follows:

Kingdom: Plantae Division: Magnoliophyta

Order: Proteales Family: Proteaceae Subfamily: Grevilleoideae

Genus: Telopea

Species: speciosissima

Each level in this inclusive classification gives us more information about the Waratah so that we build up a mental picture of its features:

- Plantae: tells us that this is a green plant, not an animal or bacterium
- Magnoliophyta: that this is a plant with cotyledons, real flowers and seeds
- Proteales: that it has, for example, 4 perianth segments in each flower
- Proteaceae: that it has a unique flower structure with 3 of the perianth segments fused and 1 free
- Grevilleoideae: that its flowers occur in pairs
- *Telopea*: that it has large pinkish red bracts surrounding the head-like flowerhead.

'Telopea', by the way, comes from the Greek word telopos, meaning 'seen from afar' because of the conspicuous reddish flowerheads of the Waratah. The other part of its name 'speciosissima' also refers to its flowerheads (the most spectular flowerheads of all the species of Telopea), coming from the Latin adjective speciosus meaning 'showy' or 'splendid' and sissima meaning 'very'. We often call plants just by the genus and species names – the genus having a capital letter and both words being in italics.

The two parts of a binomial name can each be derived from a number of sources, of which Latin is only one. These include:

- Latin, either classical or medieval. Thus both parts of the binomial name *Homo sapiens* are Latin words, meaning "wise" (*sapiens*) "human/man" (*Homo*).
- Classical Greek. The genus *Rhododendron* was named by Linnaeus from the Greek words *rhodos*, rose, and *dendron*, tree. Greek words are often converted to a Latinized form. Thus coca (the plant from which cocaine is obtained) has the name *Erythroxylum coca*. *Erythroxylum* is derived from the Greek words *erythros*, red, and *xylon*, wood. The Greek neuter ending -ov (-on) is often converted to the Latin neuter ending -um.
- Other languages. The second part of the name *Erythroxylum coca* is derived from *kuka*, the name of the plant in Aymara and Quechua both South American languages.
- Names of people (often naturalists or biologists). The name *Magnolia campbellii* commemorates two people: Pierre Magnol, a French botanist, and Archibald Campbell, a doctor in British India.
- Names of places. The Ravenalla madagascariensis comes from Madagascar.
- Other sources. Some binominal names have been constructed from anagrams or other re-orderings of existing names. Thus the name of the genus *Muilla* is derived by reversing the name *Allium*. Names may also be derived from jokes or puns. For example, Ratcliffe described a number of species of Rhinoceros beetle, including *Cyclocephala nodanotherwon*

Below is the meaning of some common Latin words that can help you know more about your plants.

Colours		Form or Habit	
alba	white	esculenta	edible
ater	black	globosa	rounded
aurea	gold	lanceolata	lance-shaped (leaf)
azur	blue	maculata	spotted
chrysus	yellow	magnus	large
coccineus	scarlet	nana	dwarf
ebenus	ebony	pendula	weeping
erythro	red	prostrata	creeping
ferrugineus	rusty	reptans	creeping
flava	yellow	Common Root Words	
haema	blood red	anthos	flower
lacteus	milky	brev	short
leuc	white	carpa	fruit
nigra	black/dark	flora	flower
purpureus	purple	folius	foliage
rosea	rose	grandi	large
rubra	red	lepto	slender
sulphureus	yellow	macro	large
virens	green	medio	intermediate
Origins or Habitat		mega	big
alpinus	alpine	micro	small
australis	from the south	mono	single
borealis	from the north	multi	many
japonica	Japan	odora	having scent
montana	mountains	phylla	leaf/foliage
occidentalis	West - North America	platy	flat/broad
orientalis	East - Asia	Poly	many
sylvestris	woodland	vulgaris	common



A few of the Latin names Cyd mentioned were above clockwise from top left:- *Acacia inequilatera* (from Akakia – thorny and the leaves divided into unequal parts); *Eremophila longifolia* (desert loving and long-leafed); *Ptilotus exultatus* (a feather or wing and raised high);); *Corymbia opaca* (flat-topped inflorescence and shady) Below: *Acacia latzii* (many plants are named after people. Not by the people themselves but by others).



abyssinica = from Abysinnia (Ethiopia) paucifolia = with few leaves gigantea = giant glabra = smooth phoenicea = purple pendula = (North Africa) acaulis = stemless glacialis = from cold areas hanging aestivalis = flowering in spring glutinosa = sticky perennis = perennial alba = white graeca = from Greece -phylla = -leaved (e.g. macrophylla alpestris = from mountains graminifolia = with grassy leaves = large-leaved) alpicola = from mountains grandiflora = large-flowered pinnata = with pinnate leaves alpina = from the alps grandis = big poly- = many (e.g polyantha = altissima = tallest helvetica = from Switzerland many-flowered) america = from America hirsuta = hairy polyphylla = with many leaves, angustifolia = narrow-leaved hispida = bristly leafy annua = annual humilis = short praecox = early, of spring -antha = -flowered (e.g. micrantha = **hyemalis** = of winter pratensis = field small-flowered) procumbens = creeping incana = grey arboricola = living on trees inodora = unscented prostrata = prostrate arctica = from the arctic integrifolia = entire, undivided (leaves) pulverulenta = dusty arenaria = from sandy places japonica = from Japan pumila = small lanata = woolly punica = red argentea = silvery lanceolata = lance-shaped (leaves) armata = prickly purpurea = deep pink pygmaea = arvensis = of the field latifolia = wide-leaved small aurantiaca = orange longiflora = with long flowers quercifolia = oak=leaved aurea = golden, yellow **longifolia** = with long leaves rediviva = perennial rivalis = from near rivers australis = from the south (not lutea = yellow necessarily Australia) macrantha = large flowered autumnalis = of autumn macro- = large- (e.g. macrorhiza = largerivularis = from near rivers azurea = blue rosea = rose pink **barbata** = bearded, hairy macrocarpa = large-fruited rotundifolia = round-leaved bellidifolia = with leaves like those of a macrophylla = with large leaves rubra = red macrorrhiza = with large roots daisv rupestris = of hills borealis = from the north maculata = spotted rupicola = of hills magellanica = from the south of South **bulbifera** = bearing bulbs russica = from Russia bulgarica = from Bulgaria America sanguinea = blood-red caerulea = blue magenta = magenta sativa = cultivated caespitosa = dense magna = big saxatilis = of rocks campanulata = campanulate, like a bell majus = bigger scaber = climbing campestris = of the field maritima = maritime, near the sea scandens = climbing canadensis = from Canada maxima = biggest semperviva = perennial canariensis = from the Canary Isles mexicana = from Mexico sibirica = from Siberia capensis = from the Cape, South Africa micrantha = small flowered microphylla = sinense = from China **chilensis** = from Chile small leaves somnifera = inducing sleep millefolia = with many (thousands of) lear **chinensis** = from China spicata = spiked chrysantha = yellow minima = small spinosa = spiny clivora = from the hills minor = smaller stellata = starry montana = from mountains coccinea = red sulphurea = yellow compacta = compact multiflora = many flowered sylvestris = of woods decidua = deciduous tenuifolia = with thin, narrow densiflora = dense-flowered muralis = growing on walls leaves digitata = (leaves) like a hand, with five nana = small texensis = from Texas lobes nocturna = nocturnal tomentosa = tomentose, woolly edulis = edible trifoliata = trifoliate, with threeochroleuca = cream esculenta = edible odorata = perfumed lobed leaves farinosa = floury, powdery officinalis = with herbal uses umbellata = unbellate, with flowers ficifolia = like a fig leaf ovalifolia = with oval leaves in an umbel flava = yellow velutina = velvety pallida = cream -flora = -flowered (e.g. viridiflora = **palustris** = from marshes vernalis = of spring green-flowered) parvi- = small- (e.g. parivflora = smallvillosa = hairv Flore plena = with double flowers violacea = violet flowered) florida = floriferous parviflora = small flowered viridis = green foetida = with an unpleasant smell parvifolia = with small leaves viscosa = sticky -folia = -leaved (e.g. tenuifolia = narrowpauci- = few- (e.g. pauciflora = fewvitifolia = with leaves like a vine leaved) flowered) volubilis = twining foliosa = leafy pauciflora = few-flowered vulgaris = common

fruticosa = shrubby

Growing Sturt Desert Peas at the Australian National Botanic Gardens in Mildura.

Pictured right is part of the extensive display of Sturt Desert Peas, Swainsona formosa, at the Australian National Botanic Garden at Mildura. It was absolutely stunning. While travelling from Canberra to Adelaide, because of a storm the day before and more rain on the horizon, we found ourselves with an extra day in Mildura, so pleased we did. It was very hot and also quite humid.

The leaflet we picked up there, tells us that "Sturt Desert Peas were chosen for an experimental project because they can be difficult to grow outside their natural desert

environment. They generally grow in the hot, arid, sandy areas of Australia including all mainland states except Victoria.

The eye-catching annual takes advantage of unpredictable rain events in its natural habitat by germinating, growing and seeding quickly. One of the reasons they can be difficult to grow is that they are prone to fungal and root diseases. To overcome this, Mildura Gardens' horticulturalists used seed-grown plants grafted onto the more vigorous and rot-resistant

Sixty grafted plants were purchased from a wholesale nursery in Victoria that specialises in Sturt Desert Peas. Gardens' staff experimented with different fertilizers, pruning techniques (pinching tips to encourage compact growth) and environmental controls (bottom heat) to enhance growth.

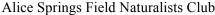
Plants that exhibited 20-40 flowering stems and high general vigour were selected for display. Of the original 60 experimental plants, 15 are currently on display and possess up to ten times more flowering stems than you would see in the wild.

To grow plants in the ground, natural conditions can be replicated by creating built-up beds of sandy loam in full sun. Good drainage is essential and avoid getting the leaves wet. Plants perform best when grown in a well-drained potting mix in a large pot or hanging basket."

New Zealand plant, Clianthus puniceus (Glory Pea).

Pictured on this page are the most common variety, bright red with a black spot or 'boss'.









March 2019



Other Desert Rose flowers on display were red with a red boss, pale pink, creamy white and darker pink.

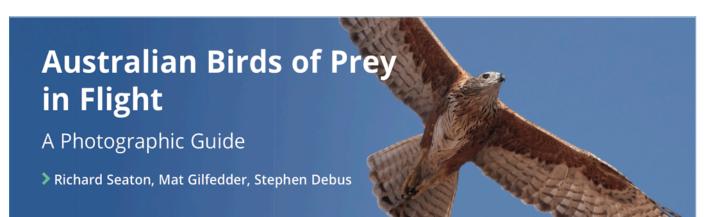






Alice Springs Field Naturalists Club

March 2019



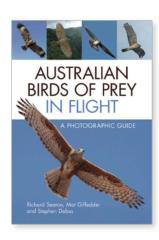
Identify the eagles, hawks, kites and falcons flying high above you with this photographic guide.

Birds of prey spend most of their time in flight and, when viewed from the ground, they are notoriously hard to identify. *Australian Birds of Prey in Flight* is a photographic guide to the eagles, hawks, kites and falcons flying high above you. Individual species profiles describe distinguishing features and the text is supported by detailed images showing the birds at six different angles and poses, using photographs from many of Australia's leading bird photographers. Annotated multi-species comparison plates highlight key features that can help differentiate birds of prey in flight.

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February 2019

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ALICE SPRINGS FIELD NATURALISTS CLUB INCORPORATED Minutes of the general meeting held at the Higher Education Building Charles Darwin University – Wednesday 14 February 2019

Open: Meeting open at 8:30 pm following a presentation by Cyd Holden on Botanical Latin.

Present: 15 members, 3 visitors and 6 apologies as per attendance book.

Minutes: The Minutes of the November 2018 general meeting as printed in the newsletter were accepted by the meeting.

Business Arising:

• Website - Robyn Grey-Gardner has been timely in uploading newsletters to the website. Although not able to attend this monthly meeting, she has forwarded a newsletter index idea to Barb. Hopefully Robyn will be able to make it to the planning meeting (24 February 2019) where it can be discussed.

Treasurer's Report:

ricusurer s reporti		
Balance of all funds (including petty cash) end of October 2018	\$3,393.08	
Income for November, December 2018 & January 2019		
 Membership 		20.00
 Payment for Christmas breakfast at Standley Chasm 		400.00
 Interest 		.79
Expenses for November, December 2018 & January 2019		
 Website host (reimbursement to B Gilfedder) 		99.98
Transfer to petty cash		40.00
Standley Chasm Breakfast		380.00
 Reimbursement to Robyn Grey-Gardner for breakfast 		20.00
(Petty Cash	\$1.85	
Added	60.00	
Expenditure	<u>20.00</u>	
	\$41.85)	
Total of all funds (including petty cash) end January 2019		<u>\$3,313.89</u>
The meeting accepted the Treasurer's report.		

Correspondence:

- Robyn Grey-Gardner away until 17 February. She will upload February newsletter to website when she returns.
- Rosalie Schultz wrote a personal letter to various government bodies re concerns on condition of Running Waters which we learnt
 about from Jayne Brim Box. She said she received bland replies. If anyone else would like to write on the subject, Barb can supply
 names of whom to send to. It was decided not to send a club response at this stage. Can be discussed further at the planning
 meeting 24 February.
- Australian Museum and Galleries Association are having a conference in Alice Springs 13 17 May 2019. Early bird registration and details forwarded to ASFNC membership. They are also interested in organisations utilizing the conference week as an opportunity to network and showcase the region.
- Australian Natural History Medallion 1. Updating contact details. 2. Calling for nominations for the medallion. No nomination suggestions received at the meeting.
- Email from Kiri Milne, Community Development Officer with Alice Springs Town Council, inviting applications for 2019 grants. Barb circulated to Committee. Lee wondered if could be used to hire lecture theatre for longer period, however Marg Friedel thinks that may not be necessary. Neil Woolcock offered to write a submission for 3 handheld UHF radios with external antenna. All in favour.
- Other relevant correspondence forwarded to membership, including the emails from Australian Naturalists Network.

General Business:

• CDU lecture theatre – thank you to Margaret Friedel, who has secured the lecture theatre free of charge for us for the next six months (after much negotiating). It is not available on Wednesday 8 May, but Ian Coleman has agreed to the use of Olive Pink Botanic Garden that evening, where there is a new display screen, donated by Australian Plants Society Alice Springs.

Past Events:

- 17 November Herbarium visit. 7 members very informative.
- 18 November Breakfast at Standley Chasm enjoyed by all. 19 Members attended and several apologies.
- 23 November Moonwalk up Spencer Hill 9 climbers.

Future Events:

- Sunday 24 February 2pm Planning Meeting OPBG All members welcome.
- Jessie Gap picnic tea with APS, which was postponed due to hot weather, will be rescheduled

Next Meeting: Wednesday 13 March 2019. Speakers: Simon Ward and Robyn Delaney will take us on a 16 day walk they did in July 2017 from Finke Gorge National Park to Watarrka National Park. Scribe – Simon Brown, Supper - Wendy and Ian Mann.

Sightings:

Simon Brown reported that 50 bird species were caught on camera at Fish Hole on Jay Creek during the very hot weather.

Barb Gilfedder reported seeing 20 Wedge-tailed Eagles between Port Augusta and Coober Pedy recently but none from Coober Pedy to Alice.

Neil Woolcock reported snakes seen on his evening tours at the Desert Park. They seem to appear around nine o'clock once temperatures have dropped.

Meeting closed at 9:00pm.

Minutes compiled by Connie Spencer