## DATE - SEPTEMBER 1996

LEADER:
SECRETARY:
TREASURER:

Peter Hind, 41 Miller Street, Mount Druitt, 2770

SPORE BANK: Kyrill Taylor, 16 Eiizabein Ciescent, Yagoona, 2100

The mention made in the June 1996 Newsletter that Calder Chaffey had agreed to rewrite the manuscript and act as writer / editor of the long talked about Fern Book, has evoked some interest. Most members who have made their views known, expressed pleasure at the news that the book might yet be published. A few have also aired their impatience. These members indicated they would like to help provide information and slides for possible inclusion in the book but need to know exactly what is required.

At this stage it is still unclear what will be required. Calder has already prepared a good deal of material for Part 1 of the book. This comprises general material about ferns and about growing ferns and is expected to be illustrated with suitable photographs and such things as potting mixes, fern houses, etc. Calder has also prepared a proposed format for Part 2 which deals with each family, genus and species of Australian ferns.

Calder has done all his work in between a series of holidays and he is currently enjoying a trip among the West Australian flora. He is due home in early September and a meeting has been tentatively arranged between Calder, Gordon Brooks. (Chairman of SGAPPublishing Committee) and prospective publisher, Kangaroo Press. In recent discussions, Kangaroo Press expressed pieasure that an appropriately equipped person has taken charge of the project. They have been keen for us to proceed with the book, they liked the material but said that to be viable the various sections should be rewritten in a consistent manner and the contents expanded.

What hasn't been agreed yet, is the extent of the proposed expansion of the books contents. Calder has estimated that a comprehensive treatment of all species and supported by photographs would run to two volumes. Kangaroo Press have asked to be shown what can be fitted into one volume up to 500 pages - something like the book they published for SGAP "Native Plants of the Sydney District" by Fairley \& Moore.

So at this stage, we cannot be prescriptive about the support needed from members. However, it is apparent that the book will include a reasonably in-depth coverage of all Australian species that are well known in cultivation. That would mean around 100 ferns. So in due course, Calder will be seeking help with information and slides for at least 100 species - any of species in general cultivation, other than Blechnum, Drynaria and Platycerum species for which material is already in hand.. Calder's address in "Redfox", 13 Acacia Street, Wollongbar, 2477. I am sure he would like to hear from you.

## FERNS IN GARDEN DESIGN

Continuing on from the March 1996 Newsletter, the following are further ferns considered valuable in garden design.

## Calochlaena dubia

This is a large fern and needs room to spread. However for a big garden or planted where there is space, Calochlaena dubia (formerly Culcita dubia), has it all - hardy, tolerates the poorest of soils, requires practically no maintenance and is very attractive. It is native to Queensland, NSW, Victoria and Tasmania.

Form: Upright and can form large colonies spreading by means of underground rhizome. Its lacy, much divided fronds are a distinctive yellow green.
Size: 1.5 m . and can be taller in sheltered positions.
Soil Type: Not fussy although at its best when grown in a reasonably loamy soil.
Aspect: Will withstand a good deal of sun if grown away from hot winds.
Watering: Tolerates relatively dry conditions but will benefit from periodic soaking.

## Christella dentata

Occurs in all mainland States. Tufted fern with a very short creeping rhizome forming tussocks. This is a quick growing tough fern, very easily propagated from spore or divided and transplanted. However, more so than most other ferns, Christella dentata requires old fronds to be removed regularly to maintain neat appearance.

Form: Erect tufted fern with dark green, bipinnatifid fronds.
Size: Up 90 cm tall.
Soil Type: Will grow in almost any soil.
Aspect: Very hardy but better with some protection from sun and strong winds.
Watering: Once established will withstand dry conditions.

## Cyathea australis

This is probably the most common tree fern in the Eastern mainland States and one of the tallest. Stipe bases are covered by small rounded nodules - tubercles. Stipes are persistent on the upper trunk. At the base the trunk can be more than I m wide in diameter. Cyathea australis occurs in Queensland, NSW, Victoria and Tasmania.

Form: A tall tree fern with broad, green, much divided fronds and persistent stipes, the bases of which are covered by glossy brown scales.
Size: Up to 12 m .
Soil Type: Adapts to a wide range of condition but best in a loamy, acid soil.
Aspect: Will tolerate a good deal of sun if kept reasonably moist and protected from desiccating winds.
Watering: Appreciates periodic good, deep soaking.

## Cyathea cooperi

In nature, Cyathea cooperi occurs in Queensland and NSW. There are several different forms sold but all have the distinctive oval scars left on the upper trunk after shedding fronds. Cyathea cooperi is inclined to be frost tender until properly established when it becomes hardy in the extreme. It will withstand full sun if protected from hot winds and given some moisture. This is a very fast growing fern, it propagates readily from spore and especially in warmer areas, should not be planted adjacent to natural bushland where it can become a weed

Form: A tall tree fern with slim clean trunk topped by mid-green lacy fronds.
Size: Up to 12 m .
Soil Type: Adapis to most soils if mulched to preserve moisture.
Aspect: Will tolerate full sun if protected from desiccating winds.
Watering: Seldom necessary once established.

## Davallia pyxidata

This is the most widespread Australian species of the popular Hares Foot genus. It is found in Queensland, NSW and to a lesser extent in Victoria, usually on tree trunks or growing in rock crevices. Davallia pyxidata is hardy and easily propagated from pieces of its long creeping, often erect, surface rhizome. Fronds are broad, finely divided and somewhat leathery especially in exposed positions but are softer and paler when sheltered and kept moist. It makes an attractive display when grown in a large hanging basket, sometimes covering the entire basket..

Form: Epiphytic or rupestral has a long creeping rhizome. Large, bright green, three or four pinnate fronds.
Size: Up to 80 cm tall.
Soil Type: Grow on a log. or rock in composted leaf litter or in a basket in a coarse well drained mixture.
Aspect: Hardy if given good drainage and planted in a fairly protected position.
Water: In a protected position, only requires watering in the driest of periods.

## Demnstaedtia davallioides

Distribution Queensland, NSW, Victoria and Norfolk Island. Rhizome creeping and much branched. Fronds are erect but tend to droop near the tips. It is a soft delicate looking fern with finely divided fronds but is tenacious and will spread quickly to nearby gardens if not restrained. In some areas, at times it may suffer damage from caterpillars.
Form: Large lacy fronds borne erect on long stiff, reddish brown stipes.
Size: Up to 1.5 m in favourable conditions, but usually around 1 m .
Soil Type: Will grow in most soils if well mulched.
Aspect: Very hardy but best in a cool area with some protection from sun and wind.
Watering: Very hardy but appearance improved when given occasional good soaking.

## Dicksonia antarctica

Probably the most popular tree fern in cultivation, many of which have come from the bush, a reflection on the ease with which it may be transplanted. It makes a great tub plant but fronds require plenty of room. The dark green (paler under), oblong shaped fronds are a notable sight as they emerge in a flush of new growth. From Queensland, NSW, Victoria and Tasmania. Although large, it is one of the most suitable tree ferns for growing in a pot adapting well to the restricted space for its root system.

Form: A popular tree fern distinguished by its large fibrous trunk, and huge spreading crown of fronds. The stipes are smooth but at the base are covered with brownish hairs..
Size: Up to 12 m tall.
Soil_Type: Will tolerate a range of soils given adequate moisture and mulching.
Aspect: Requires a cool moist protected position
Watering: Keep well watered especially in hot weather.


Re "A Member's Fern" - see page 12. Upper part of fronds,
at left Asplenium ptoridoides, at right A. surragatum.

## MID- NORTH COAST FERN STUDY OUTING <br> JUNE 1996

## P: Papinbarra

W. R.: Wilson's River

|  | $P$ | W.R. |
| :--- | :---: | :---: |
| Adiantum formosum | $X$ |  |
| Adiantum silvaticum | $X$ | $X$ |
| Arachniodes aristata | $X$ |  |
| Arthronteris beckleri | $X$ | $X$ |
| Arthropteris tenella | $X$ | $X$ |
| Asplenium attenuatum |  | $X$ |
| Asplenium australasicum | $X$ | $X$ |
| Asplenium flabellifolium |  | $X$ |
| Asplenium polyodon | $X$ | $X$ |
| Blechnum camfieldii |  | $X$ |
| Blechnum cartilagineum | $X$ | $X$ |
| Blechnum minus | $X$ |  |
| Blechnum nudum |  | $X$ |
| Blechnum patersonii | $X$ | $X$ |
| Blechnum wattsii |  | $X$ |
| Calochlaena dubia (Culcita) | $X$ | $X$ |
| Christella dentata | $X$ | $X$ |
| Cyathea australis | $X$ | $X$ |
| Cyathea leichhardtiana | $X$ | $X$ |
| Davallia pyxidata | $X$ | $X$ |
| Dennstaedtia davallioides | $X$ | $X$ |
| Dictymia brownii |  | $X$ |
| Diplazium australe | $X$ | $X$ |


|  | P | W.R. |
| :--- | :---: | :---: |
| Doodia aspera | X | X |
| Doodia caudata | X |  |
| Grammitis billardieri |  | X |
| Histiopteris incisa |  | X |
| Hypolepis glandulifera | X |  |
| Hypolepis muelleri |  | X |
| Lastreopsis acuminata | X | X |
| Lastreopsis decomposita | X | X |
| Lastreopsis microsora | X | X |
| Lunathyrium petersenii | X | X |
| Macroglena caudata |  | X |
| Microsorum scandens | X | X |
| Pellaea falcata | X | X |
| Platycerium bifurcatum | X | X |
| Platycerium superbum | X |  |
| Pteridium esculentum | X |  |
| Pteris tremula | X | X |
| Pteris umbrosa | X | X |
| Pyrrosia confluens | X | X |
| Pyrrosia rupestris | X |  |
| Sticherus flabellatus |  | X |
| Sticherus lobatus |  | X |
| Todea barbara |  | X |

Notes from the Mick North Coant



 Whathopen









Most of the tuatks in the area follow the epeek and the main
 of the gtepping stones were uncter water which meant we had to Wade acucoss. "The water" Was absollutely freezimg.

Lastreopsis microsora grew under painforests. Where there was a bit more light L " decomposita grew. Arthropteris beckleri; An tenelda anct mymatosorus geandens scrambled over mame treas
 not ": 1 ose toqether" ancl there werm no hyburds.

Ampleritum australasicum wat present mostly hion on trees but geme were low down and on faden treas. One large plant appeared tuc be intermediate between A. australamicum and A. harmaniin The falmy nampow fronds had a dona harrow basal part turning in at the bawe. A young plant uncer jt hat the sime formn it seems
 whametwerjstics. A. harmanii was not presemt in the area.

That evendig we dewided we would go to the wilan fix ver the next day as the ondy other walk at fappintarra dikely to be rich in fernse were beyond where we had already walked. This meant five fremang cireek crossjoge going and the same five coming bank:
din the marnima we drove to Wilson fiver. The main walk in thit beatufulameats to a watemfall. This was very epectaculam with a lot of water going over it. AJong the track to itt Cyathea dedchardtiana was plentiful and some were very tald and shender. Ald the piante chowe enough to look at had pade codoumed soales, undine those at: the Bomeder Ranges whith ware reatiden brown on many of the parytan We maw only wo Cyathea austroalim though mope were presente hioher up on the hill.

Gtitherus lotatus grew with atechmum watteid as it often does. Sn flably atus grew beside the river in a few places.
 Was presemt near the river where ju got plenty of lifht.

Hypoderas muelleri grew bewder the parking arean This is another ferm that: 1 ikes pacenty af dight.

Amplenium attenuatum was plentiful on mocke mear the falls. A few patches of Macroglena camata arew on some cyathea deicharcitiana. "his ig er common host for it.

Grly a few Todea barbare were seen and they had not developerd trumsin In areas wheme they on falmy ferns and Tmessimteris often ame present.

Arthroptaria beckleri grew cjocse to the ground on large
 beckderi made madd fronds except when it. cilimbed trees when it made langer onewn I have never meen it produce fertile frontg
 this an whitivation though they are easy to grow if they are kept


## MID-NORTH COAST FERN STUDY OUTING TO CENTRAL COAST, 25-26 MARCH 1996

M : Muir's Lookout \& Wishing Well
S : Somersby Falls
G : Girrakool

|  | M | $\underline{S}$ | G |
| :---: | :---: | :---: | :---: |
| Adiantum aethiopicum | $X$ | $\times$ | X |
| Adiantum diaphanum | X |  |  |
| Adiantum formosum | X |  |  |
| Adiantum hispidulum | $x$ | X | $X$ |
| Adiantum silvaticum | X |  |  |
| Arthropteris beckleri | $x$ |  |  |
| Arthropteris tenella | $\times$ |  |  |
| Asplenium australasicum | $x$ |  |  |
| Asplenlum flabellifolium | X | $x$ | X |
| Blechnum ambiguum |  | X | $x$ |
| Blechnum camfieldii |  |  | $x$ |
| Blechnum cartilagineum | X | $x$ | X |
| Blechnum gregsonii |  | X |  |
| Blechnum nudum | $x$ | $x$ |  |
| Blechnum patersonii | X |  |  |
| Blechnum wattsii |  | X |  |
| Calochlaena dubia (Culcita) | $x$ | X | X |
| Cheilanthes sieberi | X |  |  |
| Christella dentata |  | X | $x$ |
| Cyathea australis | $X$ |  | $x$ |
| Cyathea cooperi |  | X | X |
| Cyathea leichhardtiana | X |  |  |
| Davallia pyxidata |  | $x$ |  |
| Diplazium australe |  | $X$ |  |
| Doodia aspera | $x$ |  |  |
| Doodia caudata | X | X |  |
| Gleichenia dicarpa |  | $x$ | $x$ |
| Gleichenia microphylla |  | $x$ | X |


|  | $M$ | $\underline{S}$ | $\underline{G}$ |
| :--- | :---: | :---: | :---: |
| Gleichenia rupestris |  | $X$ | $X$ |
| Grammitis billardieri | $X$ | $X$ |  |
| Grammitis stenophylla |  |  | $X$ |
| Histiopteris incisa | $X$ | $X$ | $X$ |
| Hymenophyllum cupressiforme | $X$ | $X$ | $X$ |
| Hypolepis glandulifera | $X$ |  |  |
| Hypolepis muelleri |  | $X$ | $X$ |
| Lastreopsis acuminata | $X$ |  |  |
| Lastreopsis decomposita | $X$ |  |  |
| Lastreopsis microsora | $X$ |  |  |
| Lindsaea linearis |  |  | $X$ |
| Lindsaea microphylla | $X$ |  | $X$ |
| Lunathyrium petersenii |  | $X$ |  |
| Lycopodium laterale |  |  | $X$ |
| Microsorum scandens | $X$ |  |  |
| Pellaea falcata | $X$ | $X$ |  |
| Pellaea paradoxa | $X$ |  |  |
| Platycerium bifurcatum | $X$ | $X$ |  |
| Polystichum australiense | $X$ |  |  |
| Psilotum nudum |  | $X$ | $X$ |
| Pteridium esculentum | $X$ | $X$ | $X$ |
| Pteris tremula | $X$ |  | $X$ |
| Pyrrosia rupestris | $X$ | $X$ |  |
| Schizaea rupestris |  | $X$ | $X$ |
| Selaginella uliginosa |  | $X$ | $X$ |
| Sticherus flabellatus | $X$ | $X$ |  |
| Tmesipteris truncata |  | $X$ | $X$ |
| Todea barbara | $X$ | $X$ | $X$ |

A most pleasant and interesting outing 'down south', with scenic locations and several fern species we don't usually come across. Many thanks to Bea and Roy for efficient organisation and warm hospitality.

Notes on the Mid North Coast Group"s Visit to the Gentrel Coast on 25th-26th Marchy 1996 Compiled by Steve Clemesha

Dur group visated the Centred Coast for the secona time but we visited different areas to dest time. First we went to the Wishaing Well Walk in the Wattagan Mountains and then to Muir"s Lookout.

The Wi.mitimg Well Walk was an jnteresting one. We saw all 5 of NEW Adiantum spectes growing at various placem along the walk. each preferring a sillotity different matitata Arthropteris tanelda and A. beckleri arew in the rainforest Eections of the walk. polystichum austmedense was present: This species is very plentiful on the Central Coast but exemb rare or absent on the Nomth Cownt. did records have been recomded from there but bur members have never seen it:

After this walk we drove to Mair" s Lookout and tried to pick out: lanamarks we could see.

The next day we went to Gomersby fiells. An abundarnce of ferns grew theme. Elechnum amblqum was easy to identify as it had fertejle fronds: These are about $1 / 3$ the width of the barren
 Tmesipter-js trenemata. More plants of this were seen further down the creet on Iarge plante of Todea bartbarn Echizamapupestia grows on wettrocks. This speciess splentifutinthe area emd

 in wet places on rocks in sandstone couritry.
 Easy to recounite anits pinnae arm falcate and more pointed than thome of itarelatives En ambiguum and E. wattsil. In addition to this fertide fronds were present. These are almost as wide as the barmen onem.

Rewentey I have found this specjes at: Carrington Falls gW of WoJlongong. Agaln I reccognizer it by the falcete pointed pinnae
 this from beth lowalltas to the NEW Natilonal Hembardum as it formerly was known only from a few localitices in the upper Elue Mountian hen

Our fanal fern visit that day was to Girmakool National Fark" Gehizabe rupertrie and Blechnum ambloum agaln were present: E" ambiounim is another sandstome fern. it orows from thits area to the Gydney sandetone and biue Mountialns and there also ame populations of it at Glemmeagh and the Elackdown Tatileland in Central Quemsiand.

An urnewpected find in this area weas a patch of themmum camfieldid near the meekn This nommaly grown in dow ying Ewampy Eumbry near the sea but on an eariler trip we found it near the top of Comboyne Mourtiad.

After our walk at Girrakool we looked at aboriginal rock carvibge nemby. We then drove to a aroer area of aboriginal carvings near kamiong.

We admo had an look at Hea 4 Foy Duncan" fsernss. We were very impmessed with Fioy"s Cyathea cumatnghamid which has grown through the roof. We put a ladder to it and checked it for "epores. There was an old fertile fronal but no matume or develoning spores. the plant ja about of metarest tall and only has
 a fadrdy fast grower.

We thank Hea and Roy for the efficient organisation and their warm. firierolly hospitality.

Our next: outing is to Fiapintarrea on the 15 st and zind June. Filng Charlie Charters for detaile - (06E) EG 10 GB

## An improved Fern Potting Mix <br> by Calder Challey

Having read about the technical properties of Zeolite it was decided to try it in a fern potting mix. Experiments were based on adding Zeolite to a basic and well tried formula. The mix chosen was:

| Coarse river sand | 1 part by volume |
| :--- | :--- |
| Perlite " 500 " | 1 part by volume |
| Peal Moss | 1 part by volume |

This has been used for a long time and gives good results with ferns. To the above mixture Zcolite (chips $0.5-2 \mathrm{~mm}$ ) was added, 1 part by volume. The resulting mixture therefore contained $25 \%$ by volume of each component.

As small plants of Adiantum aethiopicum about 10 cm high were available, these were used in a trial to test the potting mix. This fern likes a growing medium slightly alkaline, pH 7.5-8. A batch of the original mixture and the new mixture containing Zeolite were both adjusted to pH 7.5 with dolomite, using a standard colorific lest kit for pH , available at nursery supply shops. Several 25 cm plastic pots were filled, an equal number with each mix. Each polfull of mix was tipped out separately and 15 gm of "Osmocote, Indoor, Courtyard and. Balconies" was added and thoroughly mixed. The mix was then replaced in the pot. This ensured exactly the same amount of the fertilizer in each pot. Six pots of each mix were potted up with one Adiantum aethiopicum fern. As a side experiment 30 gm of old blood and bone was added toeach of three extra pots of each mix. Also 30 gm of Dynamic Lifter was added to each of three extra pots of each mix. In each of these a fern was planted. All pots were placed in a shadehouse in $40 \%$ shade.

In six months the Adiantum aethiopicum had filled each pot and reached a height of about 30 cm . However it was obvious that there was more vigorous growth and 5 to 7 cm more height in those grown in the mix containing Zeolite. There was no noticeable difference in those grown with the blood and bone or Dynamic Lifter.

The makers claim that Zeolite has a high cation exchange capacity (CEC) with the ability to increase the CEC of the mixture. It also reduced nutrient losses by leaching, particularly ammonium and potassium and supplies calcium and potassium to the plant. It is specially noted that to obtain these benefits $2-10 \%$ vol/vol is necessary. Zeolite also has a high water absorbency, $65 \%$ weight for weight, retains water and allows fast rewelting. It is also claimed that $20 \%$ by volume encourages root growth and reduces clumping of roots around the perimeter.

In the above experiment each pot, which contained $25 \%$ Zeolite by volume, showed improved fern growth. This amount of Zeolite falls well within the concentration which the makers suggest for the maximum benefits. In view of the results it is well worth trying the use of . in other potting mixes and for other ferns.

TALLAGULLA, BRISBANE - LIST OF FERNS IDENTIFIED - 3 DECEMBER 1995 ( A report on the outing was included in the December'95 Newsletter)

Genus
Adiantum
Adiantum
Adiantum
Amphineuron
Arachniodes
Asplenium
Asplenium
Asplenium
Asplenium
Asplenium
Belvisia
Blechnum
Blechnum
Blechnum
Blechnum
Blechnum Cheilanthes
Christella
Christella
Colysis
Cyathea
Cyathea
Cyathea
Davallia
Dennstaedtia
Dicksonia
Dicksonia
Dictymia
Diplazium
Diplazium
Diplazium
Doodia
Doodia
Doodia
Doryopteris
Drynaria
Drynaria
Histiopteris
Hypolepis
Lastreopsis
Lastreopsis
Lastreopsis
Lastreopsis
Lygodium
Macrothelypteris Microsorum
Microsorum
Microsorum
Microsorum
Nephrolepis
Nephrolepis
Ophioglossum
Pellaea
Pellaea
Pellaea

Species
aetiiopicum
formosum
hispidulum
opulentum.
aristata
australasicum
australasicum
bulbiferum
milnei
polyodon
mucronata
cartilagineum
indicum
nudum
wattsii
whelanii
distans
dentata
hispidula
sayeri
brownii
cooperi
robusta
pyxidata
davallioides
antarctica
herbertii?
brownii
australe
dietrichianum
queenslandicum?
aspera
caudata
media
concolor
rigidula
rigidula "Whitei"
incisa
muelleri
decomposita
marginans
microsora
munita
japonicum
torresiana
grossum
punctatum
pustulatum
scandens
cordifolia
hirsutula?
pendulum
falcata var. falcata
fialcata var. nana
paradoxa

Eamily
Adiantaceae
Adiantaceae
Adiantaceae
Thelypteridaceae
Aspidiaceae
Aspleniaceae
Aspleniaceae
Aspleniaceae
Aspleniaceae
Aspleniaceae
Polypodiaceae
Blechnaceae
Blechnaceae
Blechnaceae
Blechnaceae
Blechnaceae
Sinopteridaceae
Thelypteridaceae
Thelypteridaceae
Polypodiaceae
Cyatheaceae
Cyatheaceae
Cyatheaceae
Davalliaceae
Dennstaedtiaceae
Dicksoniaceae
Dicksoniaceae
Polypodiaceae
Athyriaceae
Athyriaceae
Athyriaceae
Blechnaceae
Blechnaceae
Blechnaceae
Sinopteridaceae
Polypodiaceae
Polypodiaceae
Dennstaedtiaceae
Dennstaedtiaceae
Aspidiaceae
Aspidiaceae
Aspidiaceae
Aspidaceae
Schizaeaceae
Thelypteridaceae
Polypodiaceae
Polypodiaceae
Polypodiaceae
Polypodiaceae
Nephrolepidaceae
.Nephrolepidaceae
Ophioglossaceae
sinopteridaceae
sinopteridaceae
sinopteridaceae

Comments
Natural
Natural?
Natural

LHI- birdsnes
LHI

## Natural

Natural-weed
Natural
Norfolk $\mathrm{I}=$
L.H.I.
natural?

Natural
=M.diversifol

Platycerium Platycerium Platycerium Platycerium Polystichum Psilotum Pteris Pteris Pteris Pyrrosia Pyrrosia Pyrrosia Rumohra Schellolepis Stenochlaena Tectaria Todea *Blechnum *Blechnum *Blechnum *Cyathea *Nephrolepis *Pellaea *Polypodium *Pteris *Selaginella *Tectaria
bifurcatum
hillii
superbum
veitchii
australiense nudum
tremula
umbrosa
vittata
confluens
longifolia rupestris adiantiformis subauriculata palustris muelleri barbara
brasiliense gibbum moorei? dealbata falcata f.furcans? viridis angustifolium cretica"albo-lineata" kraussiana
gemmifera

Polypodiaceae
Polypodiaceae
Polypodiaceae
Polypodiaceae
Aspidiaceae
Psilotaceae
Pteridaceae
Natural
Pteridaceae
Pteridaceae
Polypodiaceae
Polypodiaceae
Polypodiaceae
Davalliaceae
Polypodiaceae
Blechnaceae
Aspidaceae
Osmundaceae
Blechnaceae exotic
Blechnaceae exotic
Blechnaceae
Cyatheaceae
Nephrolepidaceae
sinopteridaceae
Polypodiaceae
"Pteridaceae
Selaginellaceae
Aspidiaceae
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exotic exotic exotic exotic

## NOTES FROM SOUTH EASTERN QUEENSLAND

Report on Outing to Paradise Creek Gorge, 21 July, 1996
The day was sunny, with a cold South westerly wind. Our small group of 11, ( 7 members and 4 guests), headed out from Gatton on the Mt. sylvia road. The gorge is on private property and the last kilometres of track were a bit of a challenge for some of our vehicles. We found that inside the gorge was another world, largely protected from the wind. It was a treat to wander down stream and have lunch in this relatively untouched spot. Although the creek was low, there were masses of ferns and fertile clumps of psilotum nudum on large sandstone boulders in the creek as well as other ferns in favoured spots up the sides of the gorge. Ferns seen were: Adiantum aethiopicum, Adiantum formosum, Adiantum hispidulum (including the "ground cover" form), Asplenium attenuatum, Christella dentata, Dictymia browni, Doodia aspera, Doodia caudata, Lastreopsois decomposita, Lindseae microphylla, Pellea falcata var,nana, Pellea paradoxa, Pteris tremula, Pyrrosia confluens and Pyrrosia rupestris.

It was a bonus, near the Gatton turn off in the morning, to see a large flock of Magpie Geese grazing in a section of ploughed paddock.

## FERNS FOR SALE

The following is an extract taken from a letter from a long time member, Lorraine Boulter of 3 Samuel Place St Clair, 2759.
"I am writing to you to ask if any of your members would be interested in a sale of my fern collection. It dismays me that I have to do this, because I am very fond of my collection and have built it up over a mumber of years.

The reason I am doing this, is I am finding it impossible to give them the attention they need, my hands and arms are so bad I am having difficulty even watering the ferns. I have lost a lot because of neglect.

They are mostly large baskets and the prices would be $\$ 12, \$ 10, \$ 8$ and $\$ 6$. They are Asplenium, Histiopteris, Microsorum, Schizaea (in a bottle), Drynaria, Adiantum, Arthropteris, Blechmum, Cheilanthes, Christella, Davallia, Pyrrosia, Schellolepis, Diplazium, Doodia, Humata, Pteris, Stenochlaena and others. "

Lorraine ended her letter by saying that an appropriate time for anyone interested to contact her, would be towards the end of September. Lorraine's phone number is (02) 9670 2930. I am sure all members wish Lorraine better health for the future and success in selling what is obviously an excellent collection of Australian ferns.

## NOTES FROM THE SYDNEY AREA

## Report of Meeting at Yagoona, 23 June 1996

There were 23 members present on a fine but terribly windy day. Following a short business session Geoff Long related a little of his and Ann's recent visit to Christmas Island. In company with Calder Chaffey, Geoff said that despite receiving only minimal local assistance, they succeeded in locating about 25 of the 31 fern species recorded for the Island. One of the species not sighted has not been recorded for more than 90 years, another grows only in the tallest trees. Among the ferns sighted were Psilotum nudum (widespread), Pteris tripartita, Microlepia speluncae and Microsorum punctatum.. Geoff said that looking at the ferns in some places on the Island, they could easily have imagined that they were in North Queensland.

## A Members Fern - Asplenium surragatum

In presenting "A Member's Fern" Geoff explained that he had acquired it at a SGAP Fern Sales Day about 10 years ago. It was labelled Asplenium pteridoides, a Lord Howe Island native. For several years he called it A. pteridoides and proudly showed it off as such to his visitors who included Study Group members. Recently, however, with the aid of "Flora of Australia" he keyed it out and found that he actually possessed Asplenium surragatum.

Asplenium.surragatum is another Lord Howe Island native. Geoff said his had proven to be terribly easy to grow. Geoff's plant is in a large pot kept under shade cloth but in a position where it receives morning sun. It is a very attractive fern with dark green shiny fronds about 60 cm long and 25 cm wide. The pinnae margins are deeply cut - which distinguishes it from A.pteridoides.. The fertile and sterile fronds are similar in size.

## Do You Have Any Good Fern Slides?

In a cameo performance, Fred Johnston treated us to a short slide show. Fred showed a selection of slides that he has collected for the proposed new audio visual "Ferns in the Garden". The proposal is to feature ferns that are reasonably available from fern nurseries and ferns that can be grown by Mr and Mrs Average Gardener. Fred included a few slides to illustrate the how not to photograph ferns and it seems that it is easier to grow ferns than photograph them.

In addition to slides of the more common Australian ferns in cultivation, Fred wants views of fern garden settings. If you are able to help Fred's search for good fern slides, please phone Fred at (02) 96511144.

## Tree Ferns of Lord Howe \& Norfolk Islands

Peter concluded the day with the final session on Tree Ferns, on this occasion dealing with the two from Norfolk Island and four from Lord Howe Island. A key that he used proved somewhat unsatisfactory because of the difficulty discerning the characteristics used.
Cyathea australis is one of the two tree ferns native of Norfolk Island. Peter had discussed Cyathea australis at our February meeting. A brief description of of each of the other five species follows.

Cyathea brevipinna This tree fern is distinctive because of its very short stipes that give an overlap of fronds and a compact appearance. The stipes are covered densely with reddish brown hairs. The trunk rarely exceeds 3 m tall. It is slow growing and requires good light, protection from wind and plenty of moisture - conditions not easily found in.most Australian gardens.

Cyathea brownii This is a Norfolk Island native species. in the Sphaeropteris Group. The trunk has clean oval spots left by fallen fronds and superficially resembles a very vigorous form of Cyathea cooperi. The stipe bases and the top of the trunk are covered by light brown scales, whereas the scales on Cyathea cooperi are of two types.. An attractive robust fern, Cyathea brownii grows very quickly and once established tolerates a fair amount of sun if kept moist.

## Cyathea howeana

A feature of this Lord Howe Island endemic is the dramatic flush of unfurling croziers. Fronds are shed cleanly leaving a distinctive pattern of scars on the 3 m high slender trunk. Scales at the base of stipes are small, triangular and few in number. The light green lamina is lacy, tripinnate or tripinnatifid.. Requires protection from strong sun and wind and plenty of moisture.

## Cyathea macarthurii

Endemic to Lord Howe Island and one of its most common tree ferns. Long dark hairs around the base of stipes and persistent fronds partly cover the 4 m high trunk. The somewhat untidy appearance of the trunk contrasts with the attractive lamina which is three times divided and lacy. It grows readily in a well protected fairly moist position.

Cyathea robusta This is another fern in the Sphaeropteris Group. It is endemic to Lord Howe Island and is one of the two most widespread of the Island's tree ferns. Stipes are persistent in the upper part of the trunk which grows 4 to 5 m tall. The inner portion of the stipes bases, particularly those on new growth, are covered by masses of dense white scales
In cultivation Cyathea robusta is quite hardy if given protection from sun and wind and kept well watered.

Our thanks to hosts for the day , Kyrill and Dorothy Taylor, Our comfort was attended to in every way. A special vote of thanks too, to Roy and Bea Duncan. We have become accustomed to their generous distribution of oranges to all members at meetings around this part of the year. However, on this occasion, Kyrill's wheelbarrow had to be presssed into service to ferry the vast number of oranges (plus lemons and mandarins) from the Duncan's van to the meeting place. Thank you Bea and Roy for your generosity.

## Report of Outing to Matcham, 13 July 1996

Being a member of the Fern Study Group provides opportunities to go to interesting, special places that one is otherwise unlikely to ever visit. On this occasion. thanks to the generosity of Dot and Graham Camp 21 of us enjoyed their unique and beautiful property at Matcham just north of Gosford.

The Camp's property is set amid 70 acres of barely touched forest and woodland. $\Lambda$ prclunch walk took us across the top of a long ridge frequented by lyre birds such is the unspoilt nature of the place. Ferns noticed on this walk were Cheilanthes sieberi, Pellaea falcata, Platycerium bifurcatum, Davallia pyxidata. and Pyrrosia rupestris. After lunch Dot led the more energetic group along a path down a steep incline to follow the course of a creek amid rainforest species. Additional ferns sighted on this walk were Adiantum aethiopicum, A.diphanum, A.formosum, A.hispidulum, A.silvaticum, Asplenium australasicum, Blechnum cartilagineum, B.patersonii, Calochlaena dubia, Cyathea australis, C.leichhardtiana, Dicksonia antarctica, Doodia aspera, D.caudata, Histiopteris incisa, Hypolepis muelleri, Lastreopsis acuminata, L. microsora, Lindsaea microphylla, Microsorum scandens, Pellaea falcata var. nana, P. paradoxa, Polystichum australiense, Pteris tremula, Pterideum esculentum and Todea barbara. A very steep walk out of the valley followed but no one complained, all enthralled by the superb piece of bush. We were pleased to note signs that Graham is winning the war against the weeds with only a few patches of lantana noticeably marring the surroundings. Our thanks to the Camps for their thoughtful preparation for our visit and for their many kindnesses on the day.

## FORTHCOMING EVENTS : IN THE SYDNEY REGION

## Saturday 14 September 1996, Outing to Wheeny Creek

From Sydney travel along Bells Line of Road until Kurmond, turn right into Comeroy Road. After 8 km road divides, don't take Blaxland Road keep to the left towards Upper Colo until reaching Wheeny Creek. Meet at the Creek, there is a Toilet Block to the right. Arrive from 9.30 am for a 10 o'clock sharp start. Easy walk but bring a towel as we may have to paddle to cross the Creek. Carry lunch and water. Enquires to Peter 96258705.

## Saturday 19 October 1996, Outing to Newnes

Meet from 9.30 am at Clarence Railway Station on the Zig Zag Line ready to move off in convoy at 10 o'clock sharp. Travel by car to the start of the walk along the old coach road. The planned walk is short and relatively easy through a scenic area. A few may want a longer walk via the Glow Worm Tunnel, bring a torch if this is your intention. Carry lunch and water. Enquires to Peter 96258705.

## Sunday 10 November 1996, Meeting at Dural

Our hosts' Pat Kenyon \& Ted Newman's property is situated at 1057 Old Northern Road, Dural. Enter from private road on the right just 2 km past Dural Post Office (the last street passed on the left is Wyoming Road). Bring lunch and a plate for afternoon tea. In lieu of the usual meeting format, Peter is to lead a discussion on "The Cultivation of Ferns".
Enquires to Pat 96512765.

## Sunday 1 December 1996, Meeting at Kenthurst

We meet from 11 am for our end of year get-together at the home of Tamara \& Ian Cox, 5 Ivy Place, Kenthurst. Please contact Tamara as early as possible to advise what you will bring towards the pooled lunch. Bring own crockery and cutlery and in keeping with the festive season, a gift (limit $\$ 5$ ) or several according to the number in your party. Enquires to Tamara 96542533.

## FORTHCOMING EVENTS : IN THE MID NORTH COAST, NSW.

## Week End 14 / 15 September 1996, Outing to Lower Creek

Lower Creek is about 76 km west of Kempsey. For details of this or other enquiries about the Group phone Phil Amery or Julie McIntyre on (065) 617280.

## FORTHCOMING EVENTS : IN SOUTH EAST QUEENSLAND

## Sunday 1 September 1996, Meeting at McGregor

Meet at 9.30 am at McGregor High School, Mc Gregor. Enter at the Springfield Street Gate. Topic (1) Final Arrangements for the Fern Study Group display at the SGAP Annual Flower Show, Redeeemer Lutheran College, Rochedale on the 7 \& 8 September 1996. (2) Discussion topic - "Fern Oddities and Allies".

Sunday 20 October 1996, Excursion Mapleton
Mapleton Forest Drive. Meet at the "Lily Pond" Park at Mapleton at 9.30 am. For further particulars ring Peter Bostock (07) 32026983 or Geoff Goadby (07) 33741946.

## Sunday 1 December 1996, Breakup Function

Meet at Graham Nosworthy's home, 69 Grandview Road, Pullenvale. Bring fern or suitable gift for exchange and ideas for next year's meetings and excursions.

For any other information regarding South East Queensland events phone Peter Bostock (07) 32026983 or Irene Cullen on (07) 32731055.

## FERN REQUEST FOR GREVILLEA PARK

Ray Brown, the driving force behind the creaton of the magnificent Illawarra Grevillea Park at Bulli. is finalising development of a rainforest area at the Park. Amongst other things Ray is also Curator of the living collection for the Grevillea Study Group.

The rainforest area features walkways winding through natural forest leading to the escarpment. Ray has mentioned that he would like to make plantings of ferns along the walkways. It s possible that Fern Study Group members may have surplus ferns they would be willing to donate for this purpose. Ray has no preference for particular species as long as the ferns are Australian.

If anyone could help they could phone Ian Cox on (02) 9654 2533. Ian will co-ordinate the collection and delivery of the ferns.

## DEADLINE FOR COPY

Contributions to the Newsletter are always more than welcome. Articles for our next edition should reach the Secretary by no later than 15 November 1996.

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