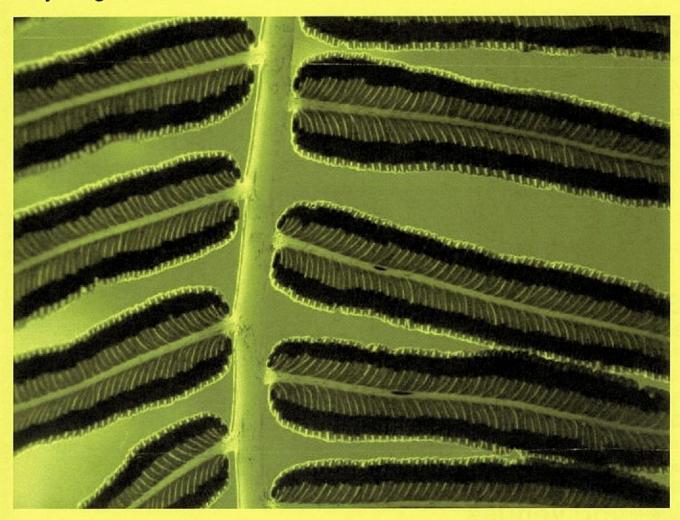
FERN SOCIETY OF VICTORIA

NEWSLETTER

Volume 36, Number 4 July/August 2014



In this issue:

- Our President discusses the future of the Society
- Flora of Madagascar

Fern Society of Victoria Inc.

ABN 85 086 216 704

mail: PO Box 45, Heidelberg West, Victoria 3081, Australia

email: barry white1@msn.com.au

http://home.vicnet.net.au/~fernsvic/ web:

Objectives of the Fern Society of Victoria

To bring together persons interested in ferns and allied plants

To promote the gathering and dissemination of information about ferns

To stimulate public interest in ferns

To promote the conservation of ferns and their habitats

Office bearers

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Subscriptions

Opinions expressed in this Newsletter are the personal views Single \$17.00 of the authors and are not Pensioner/student \$14.00 necessarily endorsed by the \$19.00 Family Society, nor does mention of a Pensioner family \$16.00 product constitute endorsement.

Overseas \$25.00 (overseas subscription payments by international bank cheque in \$Aus, by

airmail please)

Subscriptions fall due on 1 July each year

Meeting venues

The Kevin Heinze Garden Centre, 39 Wetherby Road, Doncaster [Melway 47 H1] Other meetings as advertised in this Newsletter

Timetable for evening general meetings

7:30 Pre-meeting activities - sale of ferns, spore, books, merchandise and special effort tickets. Also library loans and lots of conversation.

8:00 General meeting

8:15 Workshops and demonstrations

9:15 Fern identification and pathology, special effort draw

9:45 Workshops and demonstrations

10:00 Close

President's Note

After the proposed Otways excursion in May was cancelled, I'm sorry to report that there was a very small attendance (only seven members, including four Committee members) for the visit to the Royal Botanic Gardens last Sunday, June 22 – despite fine weather for winter-time. However, it was pleasing to observe that the Fern Gully was looking well – relatively clear of competition from ground-level plants other than ferns after the rehabilitation work undertaken over the last few years.

Although we have had somewhat larger groups for other recent FSV outdoor activities, the number this time was very disappointing, and the same has been generally true of meetings held over recent times, to the point where consideration of the future of the Society will need to be addressed by the Committee. Aside from other considerations, it's now been a long time since we could invite outsiders to speak at meetings without concerns that they would encounter only an embarrassingly small audience.

Because of the low level of member participation, we have arrived at the point where Committee needs to assess the practicality of the Fern Society continuing as a registered association which conducts regular meetings, organises excursions, offers access to fern spore, operates a members' library, and publishes on ferns. Individual members of Committee, many of whom have served for long periods, routinely spend considerable time on FSV affairs – but with increasingly less satisfaction from the results.

If the Society was not to continue in existence, individuals interested in ferns could continue to consort in informal contact groups and, for instance, pursue their common interests by, inter alia, meeting informally at private homes (in my

experience, some other groups of fern enthusiasts elsewhere, including in UK, have operated in this way).

If the Fern Society of Victoria was not to continue as a registered association, it would require to go through a procedure of voluntary winding-up. This would involve members adopting a Special Resolution, which would require 75% of members' votes cast on the motion to support the resolution. Without seeking to pre-empt a Committee decision on a formal proposal, if and when such a decision ensues the earliest time when such a resolution might be expected to be proposed would be at the forthcoming 2014 Annual General Meeting (the terms of the resolution would be advised to members in advance of the meeting date). All financial members would be entitled (and encouraged) to vote, either in person or by submitting a proxy vote.

I regret the need to raise this matter informally in this way, but the Newsletter is the obvious place to inform members on it in the first instance. I stand ready to receive any initial feedback which members would care to express.

FOOTNOTE Notice Membership Renewals

We apologise for the inclusion of a renewals notice in the last issue of the Newsletter – this was inadvertently carried forward from a mid-2013 issue, and no doubt members would have realised this was the case.

Cover image: *Angiopteris evecta*. Pinnae undersides with sori Credit: Forest and Kim Starr; licensed under a Creative Commons Attribution 3.0 License.

Editor's Note

Having read Barry's Presidential Note, and having had some further communication with him and other committee members on the future of our society, there is nothing much to be said beyond what Barry has already put before the membership. Except to comment that it if the Fern Society of Victoria does come to a close, it will be a sad end to an era. Many other special interest societies also struggle for members, competing as they do against a vastly wider range of activities than were available when the Fern Society of Victoria was formed. Like Barry, I would not want to pre-empt any recommendation of the Committee, nor to anticipate the views of the members. There are several possible courses of action and there will be further news after the next Committee meeting. Please, as Barry has requested, provide your thoughts either directly to a member of the Committee or by making your views known at one of the next meetings.

I have taken it upon myself to write a very brief summary of the flora of Madagascar. Probably this was unwise, since I've never had the opportunity to go there, but I have many friends and colleagues who have been there and I've always been interested in the exotic flora and fauna of the big continental island off Africa. I had some images donated from Bob Rowlands to publish (see Presidential Note from the March/April issue) so some sort of general introduction seemed called for. I hope those of you who are more knowledgeable on the subject and have perhaps been there yourselves, will forgive my omissions and will perhaps amplify my comments in future contributions.

Members will probably guess that I have struggled for content this issue. Hence the list of recent fern literature (taxonomic revisions and the like) which occupies the final pages of this issue. I realise this may be of limited interest, but some of you may find something you want to know more about. Generally an internet search with a few key words will retrieve the abstract, at least, along with an email address from one of the authors. They are usually only too pleased to send pdf copies of their work for those who are interested.

Robin Wilson

Fern Society of Victoria meetings — 2014

7:30 pm Thursday 17 July
Kevin Heinze Centre
General discussion: "My Favourite Ferns"
Members are requested to note the plural and bring along more than one fern.

7:30 pm Thursday 21 August Kevin Heinze Centre Barry White "Dryopteridaceae (Shield Ferns)" The competition category will be *Polystichum*, *Lastreopsis*, *Cyrtomium*, *Arachniodes*, *Dryopteris* and *Rumohra* etc.

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Some notes on the botany of Madagascar

Robin Wilson

The following notes are a summary taken from two recently published articles: "Has Vicariance or Dispersal Been the Predominant Biogeographic Force in Madagascar? Only Time Will Tell" by Anne D. Yoder and Michael D. Nowak and published in the The Annual Review of Ecology, Evolution, and Systematics, online at http://ecolsys.annualreviews.org and "Diversity and distribution of ferns in sub-Saharan Africa, Madagascar and some islands of the South Atlantic" by J. J. Aldasoro, F. Cabezas and C. Aedo and published in the Journal of Biogeography 2004 Volume 31.

Madagascar is now an island separated from it's closest neighbour, the continent of Africa, by about 400 km. Other continental masses, India, Antarctica and Australia are much further away, yet there is abundant evidence that Madagascar was once connected to all these continents. Unravelling such Gondwanan relationships among the southern continents is a continuing research topic for geologists, botanists and zoologists.

The climate of Madagascar varies dramatically from east to west. The east coast, where most of the evergreen rainforest is found, enjoys the greatest rainfall. The south and west coasts are dry and have arid spiny bush an dry decideous forest. The other major vegetation types, in the centre of Madagascar, are Montane Ericoid thicket, Sambirano rainforest and central highlands flora.

Madagascar is remarkable for the richness of the flora and fauna, as well as the endemism:
Madagascar is estimated to have about 12,000 plant species, of which 10,000 are endemid (occur nowhere else). (As an aside, Madagascar is very poorly served by botanical field guides. At last count there were only 6 titles available, fewer than for virtually all other comparable tropical regions.) Endemism is also rampant among the fauna: 95% of the reptile species, 99% of amphibian species, and 100% of the island's land mammals (excluding bats) are also unique to Madagascar. Botanists and zoologists are busily trying to explain how these high levels of species richness and endemism arose.

Endemicity is not so great among ferns as it is in the seed plants, due to the fact that fern spores disperse more readily. Even so, Madagascar has about 557 fern species, of which about 42% are found nowhere else. For example, the staghorns (genus *Platycerium*) includes 3 species that only occur in Madagascar: *P. ellisii*, *P. madagascariense*, and *P. quadridichotomum*. Quite significant given that the genus comprises only about 12 species world-wide.

Explanations of the high levels of diversity and endemism revolve around two possibilities: either the animals and plants could have evolved and new species arose from ancestors present on Madagascar before the breakup of Gondwana, or else African species could have dispersed to Madagascar much more recently and subsequently evolved into new species. To cut a long story short, although both explanations apply depending on which element of the fauna and flora is examined, the evidence seems to favour the second explanation in more cases, especially where ferns are concerned. For ferns, refuge areas have probably been important and have allowed re-colonisation of wider areas after local extinctions during dry periods.

Ferns from Madagascar



Above: Marattia fraxinea at Montagne d'Ambre National Park, Madagascar

Below: detail of underside of frond, Marattia fraxinea

photos: the late Joan Rowlands (donated by her husband Bob)





Fern Society of Victoria Newsletter Volume 36 number 4, page 7

Ferns from Madagascar (continued)



Above: Thelypteris aff. interrupta at Pitcher Plant Reserve, Fort Dauphin, Madagascar

Below: Thelypteris sp. at Montagne d'Ambre National Park, Madagascar



Fern Society of Victoria Newsletter Volume 36 number 4, page 8

Ferns from Madagascar (continued)



Above: Cyathea dregei from South Africa and Madagascar, photographed by Abu Shawka and distributed under a Creative Commons share alike license.

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Recent taxonomic literature on ferns

Some members may be interested in recent taxonomic work in the fern world. This is a very incomplete list. Generally a web search and a request addressed to the email address of the corresponding author is all it takes to get hold of a pdf copy for those who are interested. (And apologies to the librarians amongst you for the slightly imperfect alphabetic sorting! I also ran out of time to italicise all scientific names but I trust you can all recognise them anyway.)

The editor

Christenhusz, M. 2009. New combinations and an overview of Cyathea subg. Hymenophyllopsis (Cyatheaceae). Phytotaxa 1: 37-42.

Conant, D.S. 1983. A revision of the genus Alsophila (Cyatheaceae) in the Americas. J. Arnold Arbor. 64: 333-382. [available on BHL; includes transfers for species of Nephelea treated by Gastony.]

Gastony, G. 1973. A revision of the fern genus Nephelea Contr. Gray Herb. 203: 81-148. [available in BHL]

Holttum, R.E. & P. J. Edwards, 1983. The tree-ferns of Mount Roraima and neighbouring areas of the Guayana Highlands with comments on the family Cyatheaceae. Kew Bull. 38: 155-188.

Lehnert, M. 2003. Six new species of tree ferns from the Andes. Amer. Fern Journ. 93(4): 169-183.

Lehnert, M. 2006. The Cyatheaceae and Dicksoniaceae (Pteridophyta) of Bolivia. Brittonia 58(3): 229-244.

Lehnert, M. 2006A. New species and records of tree ferns (Cyatheaceae, Pteridophyta) from the Northern Andes. Org. Divers. Evol. 6, Electr. Suppl. 13: 1-11.

Lehnert, M. 2006B. Two new tree ferns (Cyatheaceae) from southern Ecuador. Brittonia 58: 4-9.

Lehnert, M. 2008. On the identification of Cyathea pallescens (Sodiro) Domin (Cyatheaceae): typifications, reinstatements and new descriptions of common Neotropical tree ferns. Bot. Journ. Linn. Soc. 158: 621-649.

Lehnert, M. 2009. Resolving the Cyathea caracasana complex (Polypodiopsida: Cyatheaceae). Stuttg. Beitr. Naturk. A, N.S. 2: 409-445.

Lehnert, M. 2009A. Three new species of scaly tree ferns (Cyathea-Cyatheaceae) from the northern Andes. Phytotaxa 1: 43-56.

Lehnert, M. 2011. The Cyatheaceae (Polypodiopsida) of Peru. Brittonia 63(1): 11-45.

Lehnert, M. 2011A. Species of Cyathea in America related to the western Pacific species C. decurrens. Phytotaxa 26: 39-59. [Synopsis of 8 paleotropical and 32 neotropical species.]

Lehnert, M. 2012. A synopsis of the species of Cyathea (Cyatheaceae-Polypodiopsida) with pinnate to pinnate-pinnatifid fronds. Phytotaxa 61: 17-36. [Keys and synopsis of 57 species and 8 varieties; many new combinations and names based on former Cnemidaria spp.]

Lehnert, M. 2014. Do you know Cyathea divergens (Cyatheaceae-Polypodiopsida)? Phytotaxa 161: 1-42. [Added Feb 2014; not represented in above discussion.]

Fern Society of Victoria Newsletter Volume 36 number 4, page 10

Recent taxonomic literature on ferns (continued)

Lehtonen, S., H. Tuomisto, G. Rouhan, and M. J. M. Christenhusz. 2010. Phylogenetics and classification of the Pantropical fern family Lindsaeaceae. Botanical journal of the Linnean Society 163: 305-359.

Lehtonen, S., N. Wahlberg, and M. J. M. Christenhusz. 2012. Diversification of lindsaeoid ferns and phylogenetic uncertainty of early polypod relationships. Botanical journal of the Linnean Society 170: 489-503.

Lellinger, D. 1987. The disposition of Trichopteris (Cyatheaceae). Amer. Fern. J. 77: 90-94.

Murdock, Andrew G. 2008. A taxonomic revision of the eusporangiate fern family Marattiaceae, with description of a new genus Ptisana. Taxon 57 (3): 737-755.

Murdock, Andrew G. 2008. Phylogeny of marattioid ferns (Marattiaceae) inferring a root in the absence of a closely related outgroup. American Journal of Botany 95 (5): 626-641

Murillo-A, J. & M.T. Murillo. 2003. Pteridófitos de Colombia IV. Novedades in Cyathea (Cyatheaceae). Rev. Acad. Colomb. Cienc. 27(102): 45-51. [open access | [Includes checklist of Colombian species, 55 spp and 5 var's. Cnemidaria spp not included.]

Perrie, L.R., Wilson, R.K., Shepherd, L.D., Ohlsen, D.J., Batty, E.L., Brownsey, P.J., Bayly, M.J. (in press). Molecular phylogenetics and generic taxonomy of Blechnaceae ferns. Taxon.

Ohlsen D.J., Field A.R. (2013). A new fern species for Queensland: Diplazium squamuligerum (Rosenst.) Parris (Woodsiaceae). Austrobaileya 9,114-125.

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Recent taxonomic literature on ferns (continued)

Perrie LR, Shepherd LD, de Lange PJ, Brownsey PJ (2010) Parallel polyploid speciation: distinct sympatric gene-pools of recurrently derived allo-octoploid Asplenium ferns. Molecular Ecology 19: 2916-2932.

Perrie L.R., Shepherd, L.D., de Lange, P.J., Batty, E.L., Ohlsen, D.J., Bayly, M.J., Brownsey, P.J. (2013). Hymenophyllum pluviatile, a new and uncommon fern from New Zealand. New Zealand Journal of Botany 51, 308–320.

Perrie L.R., Ohlsen, D., Shepherd, L., Brownsey, P.J., Bayly, M.J. (2010). Tasmanian and Victorian populations of the fern Asplenium hookerianum result from independent dispersals from New Zealand. Australian Systematic Botany 23, 387–392.

Perrie, L.R., Bayly, M.J., Lehenbach, C.A., and Brownsey, P.J. (2007). Molecular phylogenetics and molecular dating of the New Zealand Gleicheniaceae. Brittonia 59, 129–141.

Shepherd LD, Holland BR, Perrie LR (2008) Conflict amongst chloroplast DNA sequences obscures the phylogeny of a group of Asplenium ferns. Molecular Phylogenetics and Evolution 48, 176-187.

Shepherd LD, Perrie LR, Brownsey PJ (2007) Fire and ice: volcanic and glacial impacts on the phylogeography of the New Zealand forest fern Asplenium hookerianum. Molecular Ecology 16, 4536-4549.

Smith, A.R. et al. 2006. A classification for extant ferns. Taxon 55(3): 705-731. [Open Access]

Stolze, R. 1974. A taxonomic revision of the genus Cnemidaria (Cyatheaceae). Fieldiana, Bot. 37: 1-98.

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Recent taxonomic literature on ferns (continued)

Tryon, R.M. 1970. The classification of the Cyatheaceae. Contr. Gray Herb. 200: 3-50.

Tryon, R.M. 1971. The American tree ferns allied to Sphaeropteris horrida. Rhodora 73: 1-19. [available on BHL]

Tryon, R.M. 1976. A revision of the genus Cyathea. Contr. Gray Herb. 206: 19-98.

Tryon, R.M. & R. G. Stolze. 1989. Pteridophyta of Peru. Part I. 1. Ophioglossaceae-12. Cyatheaceae. Fieldiana Bot., n.s. 20: 1-145. Christenhusz, M. J. M., Z.-C. Zhang, and H. Schneider. 2011. A linear sequence of extant families and genera of lycophytes and ferns. Phytotaxa 19:5–52.

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Details of meetings September and beyond will be placed in the next Newsletter

Fern Society of Victoria Spore Bank

Fern spore is free to members of the Fern Society of Victoria who donate spore. Otherwise the cost is members 50 cents per sample, non-members \$1, plus \$1.00 to cover postage and handling. Available at meetings or by mail from Barry White, 34 Noble Way, Sunbury, Vic. 3429 Australia, Ph. (03) 9740 2724. There is no charge for spore for overseas members, however to cover postage two International Reply Coupons would be appreciated; or alternatively spore may be exchanged. International Reply Coupons are being phased out in favour of PayPal via the FSV website. Overseas non-members may purchase spore at three packets for each International Reply Coupon, plus two coupons per order to cover postage and handling. There is a limit of 20 packets per order. Some spores are in short supply please include alternatives. Queries can be emailed to: Barry White barry white1@msn.com.au. The following list is current as of December 2012, but consult the web page at

http://home.vicnet.net.au/~fernsvic/Sporlist.html for updates and for details of payment options for spore purchases. Thank you to the spore donors who are listed on the web page.

Acrostichum speciosum 4/09 Adiantum concinnum 4/11 Adiantum formosum 1/12 Adiantum hispidulum 6/12 Adiantum raddianum 'Le Grand

Morgan'6/12

Adiantum raddianum 'Triumph' 6/12

Aleuritopteris kuhnii 6/10 Amphineuron opulentum 7/11 Amphineuron queenslandicum 4/12

Anemia phyllitides 4/12 Anemia tomentosa 8/11 Angiopteris evecta 11/09 Arachniodes aristata 4/12 Arachniodes mutica 10/08 Arachniodes standishii 10/12 Asplenium aethiopicum 10/12 Asplenium milnei 10/10 Asplenium nidus 5/08 Asplenium nidus cv.5/08

Athyrium filix-femina (red stipe) 12/10

Asplenium pellucidum 3/11 Athyrium otophorum 1/12 Blechnum ambiguum 1/08 Blechnum braziliense 1/12 Blechnum chambersii 4/12 Blechnum discolor 8/12 Blechnum fluviatile 9/11 Blechnum minus 3/12 Blechnum patersonii 4/11 Blechnum spicant 1/12 Blechnum wattsii 9/11 Cheilanthes myriophylla 3/12 Chingia australis 11/12 Christella dentata 3/12 Christella hispidula /09 Christella parasitica 5/11

Christella subpubescens 4/12

Cyathea australis 1/12

Cyathea brownii 10/12

Cyathea baileyana 11/12

Cyathea cooperi 1/09

Cyathea cooperi (Blue Stipe) 1/11 Cyathea cooperi 'Brentwood' 3/08 Cyathea cooperi 'Cinnamon' 4/11

Cyathea exilis 12/12

Cyathea leichhardtiana 8/12 Cyathea macarthuri 10/10 Cyathea medullaris 10/12 Cyathea rebeccae 8/12 Cyathea robusta9/10 Cyrtomium caryotideum 8/10

Cyrtomium fortunei 6/10 Cyrtomium juglandifolium 6/12 Dicksonia antarctica 8/12 Diplazium australe 1/12 Diplazium assimile 7/12 Diplazium dilatatum 12/10

Diplazium dilatatum x Deparia petersenii v.

congrua 3/11

Doodia australis 2/12

Dryopteris affinis 'Cristata' 1/12 Dryopteris cycadina 11/12 Dryopteris erythrosora 1/12 Dryopteris guanchica 11/12 Dryopteris sieboldii 3/11 Dryopteris sparsa 11/12 Dryopteris wattsii 11/12 Histiopteris incisa 12/11 Hypolepis glandulifera 1/12 Hypolepis muelleri 3/12 Lastreopsis acuminata 10/12 Lastreopsis decomposita 1/12 Lastreopsis marginans 3/12 Lastreopsis microsora 11/12 Lastreopsis nephrodioides 4/12 Lastreopsis rufescens 3/11

Lastreopsis tenera 3/11 Lygodium japonicum 2/10 Lygodium reticulatum 11/12 Macrothelypteris torresiana 4/12

Microlepia firma 1/12

Microsorum punctatum 1/09 Oenotrichia pinnata 7/11

Ophioglossum pendulum 7/08 Pellaea cordata 7/09

Pellaea falcata 1/11 Pellaea hastata 5/10 Pellaea viridis 5/12

Phegopteris decursive-pinnata 3/12 Pityrogramma calomelanos 8/11

Platycerium bifurcatum 'Venosum' Mt Lewis

10/07

Platycerium superbum 4/08 Pleisioneuron tuberculatus 1/11 Pneumatopteris sogerensis 7/11 Pneumatopteris costata 6/11 Polypodium formosanum 10/12 Polystichum aculeatum 7/09 Polystichum australiense 10/12 Polystichum formosum 11/12 Polystichum proliferum 12/10 Polystichum retroso-paleacum 10/12 Polystichum tsus-simense 11/11

Polystichum whiteleggei 10/10 Pronephrium asperum 1/11 Pteris aspericaulis 8/10 Pteris biaurita 3/12 Pteris dentata 12/10 Pteris hendersonii 12/10 Pteris pacifica 12/12 Pteris stenophylla 4/11 Pteris tremula 11/10 Pteris umbrosa 8/12 Revwattsii fragile 3/11

Rumohra adiantiformis(Cape form) 2/12 Rumohra adiantiformis (native) 4/12 Sphaerostephanos heterocarpus 7/11 Teratophyllum brightiae 8/11

Thelypteris patens 9/09

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