

Bromeliaceae



Vr. hieroglyphica x fosteriana - Champion Bromeliad

VOLUME XXXVII - No. 4 - July / August 2003



The Bromeliad Society of Queensland Inc.

P. O. Box 565, Fortitude Valley
Queensland, Australia, 4006 .

Home Page www.bsq.org.au

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The Bromeliad Society of Queensland Inc.

Society Badges

ARE NOW AVAILABLE \$5.00 EACH

CONTACT MR. CHESTER CUTCLIFFE

Ph 07 3386 0505 or contact him at the meetings

Bromeliaceae COPY DEADLINES

September / October.....August 15th, 2003

November/ December.....October 15th, 2003

Please forward all copy to The Editor, 3 Derribong St., Boondall, Qld, 4034

Phone 07 3265 1547 Email editor@bsq.org.au

Electronic copy in RTF or MS Word 7.0 or earlier- Times New Roman

Photographs to Doug Upton, 101 Jerrang St. Indooroopilly, Qld, 4068

Phone 07 3378 3511

Cover Photographs

Front Cover

Champion Bromeliad of the Show & Winner of the Nez Misso Award

Vriesea (hieroglyphica x fosteriana) Len & Olive Trevor

This hybrid was created by David Shiigi of Hawaii and was imported in the early 90's. This plant was an offset from a plant that had previously flowered. The plant is grown strong light under 70% shade, in an open bark mixture with a little added peat moss for moisture retention. This is Len's favourite plant; he selected the plant and carefully groomed the plant for the competition,

Rear Cover

Reserve Champion of the Show & Winner of the Hudson Perpetual Trophy

Billbergia 'Hallelujah' Greg & Narelle Aizlewood

This hybrid ('Domingos Martins' x 'Ed Williams') was produced by Don Beadle and won by Greg at the Christmas Party in 1998. This plant is grown in an open garden situation under 90% sandstone coloured shade cloth, in a free draining mixture of bark, charcoal, and perlite with a little peat moss. Slow release Osmocote is added when potting offsets but none to the potting mixture. The plant get a light spray of a foliar fertilizer, usually weekly. It has been allowed to form a clump, developing into a fine specimen plant.

Bromeliad Society of Queensland Inc.

BOOKS FOR SALE

Bromeliads -- Next Generation by Shane Zaghini	\$33.00
Tillandsia Handbook by Hideo Shimizu and Hirouli Takizawa	\$58.00
Bromeliads for Everyone 2 by Bea Hansen	\$11.50
Growing Bromeliads by The Bromeliad Society of Australia	\$21.50
Genus Tillandsia by Paul Isley III	\$3.00
International Check List of Bromeliad Hybrids by B.S.I	\$1.50
A Bromeliad Glossary, 1977 Edition, by B.S.I	\$3.50
A Bromeliad Glossary, 1998 Edition, by B.S.I	\$18.50
Bromeliads -- A Cultural Manual by B.S.I	\$5.00
Distributional Checklist of the Genus Tillandsia by Lloyd Kiff	\$20.00
A Guide to Beautiful Neoregelias by S. Zaghini	\$20.00
1985 Bromeliads III Conference	\$10.00
1993 Bromeliads VII Conference	\$18.00

Inquiries: LIBRARIAN, Ms. Noela Tucker, Ph (07 ??? ?!!!!)

ALL PRICES NETT Postage & Packing Extra

Society Diary

NEWS

REPORTS

EVENTS

GENERAL MEETINGS are held on the Third Thursday of each month except December, at the Uniting Church Hall, 52 Merthyr Road, New Farm, Brisbane, commencing 8 p.m.

Classes for beginners commence at 7.30 p.m.

FIELD DAYS are held regularly in the gardens of members as advised.

MEMBERSHIP FEES Family \$20, Single \$15 pa

The BSQ Web Page can be accessed at the WWW.BSQ.ORG.AU

Competition Results

May Popular Vote

Novice

First *Aechmea (calyculata x recurvata)* V. Duncan

Intermediate

First *Neoregelia* 'Kuy Jay' Y. Daniels & L. Gerchow

Second *Neoregelia* 'I Like It' Y. Daniels & L. Gerchow

Advanced

First *Tillandsia punctulata* D. Upton

Second *Pitcairnia heterophylla* B. Genn

June Popular Vote

Novice

First *Wittrockia superba* J. Bohac

Second *Neoregelia concentrica*
albomarginata B Kale

Intermediate

First *Orthophytum gurkenii* N. Aizlewood

Second *Neoregelia (carolinae*
x 'Painted Lady') Y. Daniels & L. Gerchow

PROGRAM

July General Meeting

Beginners Session 7:30pm

Feature Workshop The Variability of Foliage Vrieseas. Members are requested to table foliage vriesea species or hybrids, where there are clones of the same name with distinct differences. Convenor Cheryl Basic

Plant of the Month:- Species or hybrids of *Quesnelia*, *Racineae*, or *Ronnbergia*.

Judges Training School

Date 26th July 10.00am-2.00pm (After the Study Group Meeting)

Location 232 Canvey Road, Ferny Grove, Qld. 4053

Judges, Trainee Judges, and Plant Stewards are invited to attend the second training session for the year. Interested growers & exhibitors may also attend as observers.

RNA Exhibition BSQ Bromeliad Display

Plants, Helpers and Stewards are required for our display at the RNA Exhibition, August XX to YY, set up on 'th of the month. Members able to supply plants or assist with the setup of the display are requested to contact Bob Cross (3265 4364). Members able to assist as display stewards during the show should contact the Roster Steward, Evelyn Rees (07 3355 0432) prior to the July General Meeting

August General Meeting

Beginners Session 7:30pm

Feature Presentation Digital Photography of Plants

Plant of the Month Tillandsia

2003 TILLANDSIA WORKSHOP

Date 13th September, 2003 10am to 3.30pm

Location 66 Agnes St., Auchenflower. (Bob Reilly's house).

Tea and coffee will be provided: participants will need to provide their own lunch. Each participant will give a 5 to 10 minutes presentation on a tillandsia related topic of their choice. However, participant's proposed topics will be discussed with them by Bob Reilly (the workshop convenor) prior to the event to minimise duplication of topics.

People wishing to attend must register with Bob Reilly (telephone 3870 8029) by 23 August, 2003. Late registrations will not be accepted.

More information? Telephone Bob Reilly on 3870 8029.

Coffs Harbour Bus Trip Saturday 27 / Sunday 28 September

This trip is now booked out. Two stand-by seats are available in the event of a late cancellation. Full cost \$128. Full payment by 1st August

Departure:- **Uniting Church Hall, New Farm** at 5.00 AM.

Pick-up:- Bus Stop, Palmdale Shopping Centre at 5.15 AM.

Contact Mrs. Nancy Kickbusch (07) 3300 1704

Plant Collection of Cheryl Basic Saturday 8th November

Cost \$25 including a BBQ lunch. Members with private transport must purchase a lunch ticket for \$3.

Departure:- Roma Street Transit Centre at 7.30 AM

Pickup :- Bus Stop Cnr. Webster & Gympie Roads at 7.50 AM.

Contact Mrs. Nancy Kickbusch (07) 3300 1704

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PRESIDENT'S NOTES**Combined Show**

The 26th Combined Show held in partnership with the Cactus and Succulent Society of Queensland Inc has again been an outstanding success. The additional support provided by our members for the competitive Show Table was particularly gratifying this year. More members entered plants and the overall quality was excellent.

The display designed and organized by Show Organizer Bob Cross was well received by members of the public and society members alike. Bob continues to demonstrate his flair in these displays. Plant sales were much increased over last year, with the public demonstrating an increased interest in our plants. This placed much greater pressure on the Treasury team but with the support of their sorting stewards, were able to cope with their usual efficiency.

The new requirements for the supply of sales plants were managed by Nancy Kickbusch. These changes were very successful and enabled regular replenishment of the sales tables. The new labelling requirements were mostly successful but some attention to this requirement is still needed from some members. Catering was provided by the Sisters of Job charity organization. Although the catering of Heather Clarke and her team was missed, the catering was well handled.

The CSSQ sections of the Show were equally well presented and supported by their members and the public. Unfortunately we are suffering problems of popularity with the Saturday morning attendance pushing the capacity of the venue to its limits. Means of minimizing this crush are under review by the Combined Show Committee and each of the parent society committees.

Monthly Meeting Format

At the June monthly meeting the format was changed to provide more time for plant based activity. The time spent on business items was reduced and the main programme event, the slide show of the New Zealand Conference, was brought forward before the tea break. This enabled a longer break for socializing and enabled the meeting to finish on time. These changes will continue for the next couple of meetings and will then be reviewed.

Judges Training

Chief Judge Olive Trevor has begun the training program for the new batch of trainee judges. There was a good response in attendance and Olive gave an interesting first course which included theory, background and a judging workshop. This first session covered plants in the genus *Aechmea*.

Other genera will be dealt with progressively during the remainder of the course.

Get Well List

Unfortunately some of our members have not enjoyed good health in recent times. Thelma Muller has not been well, following surgery. Perry Crawford has been unwell but is now recovering, Joy Upton has had influenza. The onset of the cool weather appears to have taken its toll with meeting attendance slightly down following an early cold snap. To these members and to any others that have been unwell, we extend our best wishes for their improvement.

RNA Exhibition

The next major event on our Show and Display calendar is the "Ekka" to be held in August. As usual our Society will be staging a display in the horticultural pavilion and organizer Bob Cross will need our support with the supply of plants, with the assembly of the display and with stewarding over the 10 days of the Show. Roster Steward, Evelyn Rees has begun the roster for stewards; and members should contact her no later than the July general meeting to be included.

John Higgins

New Taxa of Bromeliaceae

'The Bromeliaceae with more than 2900 species in 56 genera still yields novelties as field work in the neotropics continues. The following seven new species found in Brazil, Ecuador, and Peru are from general collections sent to the Mulford B. Foster Identification Centre for routine determination.'

- *Pepinia* neeana* Brazil
- *Puya joergensenii* Ecuador
- *Gregia leymebambana* Peru
- *Pepinia peruana* Peru
- *Pitcairnia arenaria* Peru
- *Pitcairnia camposii* Peru
- *Puya pseudoueryngioides* Peru

A full description of the distinguishing features of each these new species, including line drawings, was published in *Selbyana* 23(1): 46-56. 2002.

Harry E. Luther

A copy of these pages is available from the BSQ Inc. lending library.

* Harry notes that the genus *Pepinia* remains controversial and is not universally accepted by all.

The Editors Desk

The Bromeliad Society of Queensland Inc. gives permission to all Bromeliad Societies to reprint articles in their Journals provided proper acknowledgment is given to the original author and to Bromeliaceae, and no contrary direction is advised in Bromeliaceae. This permission does not apply to any other person or organisation without prior written permission of the original author.

Opinions expressed in this publication are those of individual contributors and may not necessarily reflect the opinions of the Bromeliad Society of Queensland Inc. or of the Editor.

Authors are responsible for the accuracy of all information in their articles.

In matters of fact, accuracy; in matters of style consistency; in all things, clarity. 'Good Writing Guide' by N.E. Renton

Fertilizer Calculations The editor has devised a spreadsheet for calculating the composition (N.P.K. Calcium & Magnesium) of fertilizers prepared from common ingredients; or from commercial preparations which have been modified with additions. Members who would like a check on the nutrient ratios of their fertilizer mixtures are invited to contact the editor. The information required is :- In the case of commercial preparations, the composition of the mixture; and the proportion of the additions. For other mixtures, the proportion and list of the ingredients.

The editor can be contacted by E-mail pparoz@powerup.com.au or c/- 3 Derribong St. Boondall, Brisbane, Qld. 4034. For mail enquiries, please include a SAE.

Plant Photography

When photographing bromeliad plants, especially those with large glossy recurved leaves, avoid a photo composition with a leaf directly facing the camera. This camera angle may result in a light 'flare' on the part of the leaf at right angles to the camera; and is very likely where flash is used.

COMBINED SHOW REPORTS

Bromeliad Competition

Class 1. Tillandsia

First	<i>Tillandsia</i> 'Haley's Comet'	R & L Hudson
Second	<i>Tillandsia xerographica</i>	R & L Hudson
Third	<i>Tillandsia</i> 'Maron'	R & L Hudson

Class 2. Tillandsia in Flower or Spike

First	<i>Tillandsia fasciculata</i> Mexico	L & O Trevor
Second	<i>Tillandsia lindeni</i>	R & M Dilling
Third	<i>Tillandsia punctulata</i>	D & J Upton

Class 3. Vriesea in Flower or Spike

First	<i>Vriesea (saundersii x platynema variegata)</i>	R & M Dilling
Second	<i>Vriesea</i> hybrid by BSQ Study Group	L & O Trevor
Third	<i>Vriesea racinae</i>	P Paroz

Class 4. Vriesea Decorative Foliage

First	<i>Vriesea (hieroglyphica x fosteriana)</i>	L & O Trevor
Second	<i>Vriesea (hieroglyphica x racinae)</i>	A & P James
Third	<i>Vriesea (hieroglyphica x fosteriana)</i>	L & O Trevor

Class 5. Guzmania

First	<i>Guzmania</i> 'Ostara'	R & M Dilling
Second	<i>Guzmania</i> 'Puna Gold'	R & M Dilling
Third	<i>Guzmania</i> 'Gisela variegated'	Y. Daniels & L. Gerchow

Class 6. Other Tillandsioideae

First	<i>Werauhia marnier-lapostollei</i>	R Reilly
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Class 8. Cryptanthus

First	<i>Cryptanthus</i> 'Imposter Red'	R & M Paulsen
Second	<i>Cryptanthus fosterianus</i>	R & M Paulsen
Third	<i>Cryptanthus</i> 'White Lace'	R & M Paulsen

Class 9. Billbergia

First	<i>Billbergia</i> Hallelujah	G & N Aizelwood
Second	<i>Billbergia</i> 'Golden Joy' (purple clone)	A & P James
Third	<i>Billbergia</i> 'Henry Teuscher'	M & P O'Dea

Class 10. Aechmea

First	<i>Aechmea</i> 'Facini'	R & M Dilling
Second	<i>Aechmea fasciata</i> 'Morgana'	R & M Dilling
Third	<i>Aechmea</i> 'Ensign'	D & J Upton

Class 11. Neoregelia 200 mm Minimum Diameter

First	<i>Neoregelia</i> 'Skotak carolinae x'	C & D Cutcliffe
Second	<i>Neoregelia</i> 'Golden Delish'	J & R Higgins
Third	<i>Neoregelia</i> 'Wild Gossip'	A & P James

Class 12. Miniature Neoregelia 200 mm Maximum Diameter

First	<i>Neoregelia</i> 'Mini Skirt'	D & J Upton
Second	<i>Neoregelia</i> ('Royal Flush' x 'Granada')	R & M Paulsen
Third	<i>Neoregelia cyanea</i>	R & M Paulsen

Class 13. Nidularium

First	<i>Nidularium</i> 'Ruby Lee' variegata	M. & P. O'Dea
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Class 14. Other Bromelioideae

First	<i>Quesnelia</i> 'Tim Plowman'	R Cross
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- Class 16. *Hechtia* or *Dyckia*
 First *Dyckia* 'Brittlestar' F2 C Basic
 Second *Dyckia* 'Red Plant' R & M Paulsen
 Third *Dyckia* 'Brittlestar' F2 C Basic
- Class 17. *Pitcairnia*
 First *Pitcairnia smithiorum* N Kickbusch
 Second *Pitcairnia* 'Pandulata' D & G Andersen
- Class 18. Other *Pitcairnioideae*
 First *Deuterocohnia brevifolia* M D'Alton
 Second *Deuterocohnia brevifolia* J & R Higgins
 Third *Deuterocohnia brevifolia* R & M Paulsen
- Class 19. Any Intergeneric
 First *Neomea* ? K Dawson
- Specimen Any genus - 3 or more connected mature plants
 First *Aechmea recurvata* var. *benrathii* L & O Trevor
 Second *Tillandsia bulbosa* G & N Aizelwood
 Third *Aechmea orlandiana* 'Snowflakes' A & P James
- Class 22. Bromeliad in a Decorative Pot
 First *Neoregelia* 'Golden Jewel' I & D Hole
 Second *Guzmania* 'Neon' L & O Trevor
 Third *Vriesea fosteriana* G & N Aizelwood
- Class 24. Miniature Bromeliad Display
 First *Tillandsia* log A & P James
- Class 26. Floral Display Cut bromeliad flowers, berries, bracts or leaves.
 First D & E Rees
- Class 28. BEST TILLANDSIOIDEAE **Nez Misso Memorial Trophy**
Vriesea (hieroglyphica x fosteriana) L & O Trevor
- Class 29. BEST BROMELIOIDEAE **Hudson Perpetual Trophy**
Billbergia 'Hallelujah' G & N Aizelwood
- Class 30. BEST CRYPTANTHUS **Grace Goode Perpetual Trophy**
Cryptanthus 'Imposter Red' R & M Paulsen
- Class 31. BEST PITCAIRNIOIDEAE
Dyckia 'Brittlestar' F2 C Basic
- Class 32 **RESERVE CHAMPION BROMELIAD of the SHOW**
Billbergia 'Hallelujah' G & N Aizelwood
- Class 33 **CHAMPION BROMELIAD of the SHOW**
Vriesea (hieroglyphica x fosteriana) L & O Trevor
TOM SCHOFIELD MEMORIAL AWARD – Chairman's Award
Werauhia sanguinolenta C Basic

COMBINED SHOW REPORT

Arriving at the Auditorium late on Friday afternoon, one wondered at the expertise and skills needed to draw plants and props together for the bromeliad display to achieve the superb end result: This year based on the Oriental theme. To stand back and see the display transform was truly amazing and a big pat on the back must go to the Show Organizer, Bob Cross and his team of very dedicated workers for a great display and a job very well done.

Two large blue lions, a Buddha, two large circular planter stands, an ornamental umbrella and a water feature as the central attraction, made a fantastic display. The water feature was a black round shape approximately 600 mm. in diameter with water softly flowing over into a catchment area, with smoke drifting up from the water - very interesting and very eye-catching.

Plants in the display included a wide range of genera consisting of *Cryptanthus*, *Dyckia*, *Hechtia*, *Aechmeas*, *Portea* and *Guzmanias* with their colourful and eye catching yellow, white and red inflorescences and the many and varied colours of *Neoregelia* - large and small. *Quesnelia* and *Billbergias* also made their presence known.

The truly spectacular *Werauhia sanguinolenta* with its dark maroon, almost black foliage took centre stage in the display and Cheryl Basic was awarded the Tom Schofield Memorial Award for this plant. Three floral exhibits set out on red velvet, positioned at the rear of the display, adjacent to a flowering *Aechmea dichlamydea*, consisting of guzmania and vriesea floral spikes and neoregelia foliage in cream, yellow and green tonings, showed the extent of the potential of bromeliads for floral displays.

The Cactus and Succulent Display was the main feature on entering the hall and always creates major interest with many plants of varied shapes and sizes and this year was no exception. Also in the foyer was a small display of bromeliads by the Gold Coast Succulent and Bromeliad Society Inc. featuring *Pitcairnia vargasiana*, a grouping of *Tillandsia ionantha* mounted on an old wooden paling and various colourful and vibrant neoregelias and billbergias.

The bromeliad competition was well supported, with 115 plants tabled in the different classes by 20 individual members. Trainee judges were invited to attend the judging process as observers this year, to look, listen and learn from the judging panel.

Saturday morning saw an extremely long queue at the doors, with the general public eager to visit the sales areas which were crowded for some time with lots of quality plants snapped up by enthusiastic buyers. The Sales



Neoregelia 'Mini Skirt'



Cryptanthus 'Imposter Red'

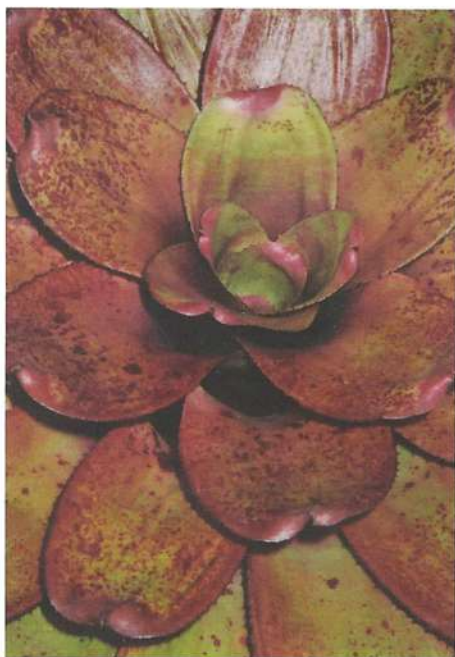




Guzmania 'Neon'



Guzmania wittmackii 'Variegata'



Neoregelia 'Fiesta'



Pitcairnia smithiorum

Stewards again were kept very busy and I believe they all deserve a large round of applause in thanks for their efforts.

A special vote of appreciation to Nancy Kickbusch for her excellent stewardship of the bromeliad sales area.

The show was officially opened at 2.00 p.m. on Saturday by Marie D'Alton the President of the Combined Show Committee after which John Higgins and Doug Snell, the Presidents of the two Societies, spoke briefly, followed by presentation of awards and trophies to successful competitors.

Sunday was another busy day; a constant number of visitors flowing through the front door made for a good attendance. The raffle was drawn late on Sunday afternoon with our very own Barry Genn winning first prize and the second prize going to a member of the public. The prizes consisted of a bromeliad garden and a succulent, *Pachypodium lameri*, from South Africa.

With a total attendance for the weekend of 2100, one can only say how successful our Combined Show was. All thanks must go to everyone who helped out in any way over the weekend. Without the help of so many dedicated and hard working helpers, the Combined Show could not be the success it always is.

Narelle Aizlewood.

Notes from the Judging Panel

- Regrettably, there were no entries in the Novice Class. This class was especially created to encourage new members to participate in the competition.
- The two Neoregelia classes, and the foliage Vriesea class were very well supported indicating the popularity of these genera.
- The plant quality was very good; the judges having difficult decision in many classes.
- There is opportunity for members preparing plants for competition to pay more attention to small details. Care in trimming leaves, etc
- In the large Neoregelia class, a number of plants showed a 'skirt' of two or three long leaves at the base of the plant which seriously detracted from the conformation. The most likely reason for this condition is an oversize offset when it is removed and potted up; or, less likely, forcing the offset in the early stages of growth after removal..
- A recent direction from the BSI Judging Panel was that removal of dead leaves from tillandsia clumps is not necessary. However, careful trimming of dead leaves close to the stem definitely improves the presentation of these plants.

Olive Trevor

BOOK REVIEW: BROMELIACEAE III

Bromeliaceae III by Francisco Oliva-Esteve. Published in 2002 by Oliva-Esteve Editions. This book can be purchased from the Marie Selby Botanical Gardens in the United States of America. Contact details are: email bwalsh@selby.org while the postal address is 811 South Palm Avenue, Sarasota, Florida, 34236, USA. The book's cost, including delivery by surface mail which usually takes about three months, is around US\$120. A copy is being purchased for the Society's library.

This book is written in a similar style to most of *Bromeliads*, which was also largely written by Francisco Oliva-Esteve. *Bromeliaceae III* has 274 pages, and is illustrated with over 500 colour photographs, 15 line drawings, and 10 black and white photographs. The book starts with a short chapter on the European and North American botanists and horticulturalists who found many of the Venezuelan bromeliads. The roles of over 20 people are summarised.

Most of the book comprises descriptions of a wide variety of South American bromeliads. The habit, shape and size of each species is described as well as its location. At least one photograph of a flowering plant of each species accompanies the text. A high standard of accuracy has been achieved in the text, and the quality of the photographs is very good. In addition, there are many photographs of bromeliad habitats throughout the book.

The number of species described in *Bromeliaceae III* are quite extensive: *Portea* 3, *Aechmea* 34, *Billbergia* 9, *Canistropsis* 1, , *Canistrum* 3, *Cryptanthus* 1, *Hohenbergia* 2, *Neoregelia* 3, *Orthophytum* 4, *Navia* 2, *Quesnelia* 5, *Ronnbergia* 2, *Alcantarea* 3, *Catopsis* 3, *Guzmania* 38, *Mezobromelia* 1, *Racinaea* 1, *Tillandsia* 108, *Vriesea* 15, *Werauhia* 6, *Deuterocohnia* 2, *Dyckia* 5, *Encholirium* 1, *Fosterella* 1, *Hechtia* 1 *Puya* 16, *Pitcairnia* and *Pepinia* 17. Most of these species are different to those described in *Bromeliads*. The book concludes with a comprehensive index and line drawings of 10 or so species.

If you need to choose between this book and *Bromeliads*, then the latter represents better value for money (unless, of course, you are lucky enough to win the raffle in which *Bromeliaceae III* is the first prize!). However, it is still well worth buying, especially if you are interested in tillandsias.

Bob Reilly

***Bromeliaceae III* is the first prize in a fund-raising raffle for the 2005 Australasian Bromeliad Conference.** The raffle will be drawn on 4th December 2003 at the Society's Christmas party.

Tickets are \$10 for a book of five. These can be obtained from 'The Convention Registrar', P.O. Box 565, Fortitude Valley, Qld. 4006

MAY 2003 FIELD DAY REPORT

About 60 people attended the Society's May 2003 field day held at the property of Keith and Jan Redhead at Capalaba. Their property has been extensively landscaped. One of the many impressive features was the effective use that has been made of the sloping block to create a series of "gardenscapes" which, while individually self-contained, also integrate with each other. As well as bromeliads, a wide variety of plants have been used in the various plantings; cacti and other succulents, heliconias, rainforest species, eucalypts, palms, and tree ferns.

Many of the paths have been surfaced with "light-coloured" rocks (screenings). These provide an effective contrast to the predominantly green foliage surrounding and overhanging them. Several water features provided a "restful" atmosphere throughout the property. A particularly nice "touch" was the Japanese theme developed around a pond at the rear of the property. Bromeliads were spread throughout the landscaped areas. They have been used effectively as low-growing plants in the foreground of these areas, as well as in more shady locations.

Bromeliads, such as neoregelias, and *Aechmea recurvata*, were located in areas receiving plenty of sunlight (but not full sun), while guzmanias, nidulariums, and vrieseas were planted in more shaded areas. The placement of *Aechmea recurvata* plants highlighted the adaptability of this species. As well as being grown in the ground, plants were also tied to branches. In both cases, plants were flowering profusely.

Patricia O' Dea gave a talk on growing plants of the relatively rarely seen genus, *Quesnelia*. Points made by Patricia included:

- The genus is named for Monsieur Quesnel, who was the then French Consul at Cayenne in French Guiana. He was responsible for introducing the genus into cultivation.
- While there are about 20 species in this genus, only about 10 are seen in Queensland collections. Most *quesnelias* are terrestrials.
- Some of the species which are available include: *arvensis*, *marmorata* (including the relatively rare cultivar "Tim Plowman"), *quesneliana*, *lateralis*, *edmundoi*, and *testudo* (which has a nicely variegated form.)

Patricia has had difficulty in growing some of these plants. One suggestion was that as many of these species grow naturally close to the ocean (and hence live in a high, relatively speaking, "salt environment"), it could be worthwhile putting some beach sand into the potting mixture. There is still confusion as to the true identity of some of the *quesnelias* grown in Queensland. (This situation is, unfortunately, true for many

bromeliad genera.)

John Higgins and Patricia then conducted a question and answer session on bromeliad culture. Points made by various people included:

- The natural habitat for many neoregelias is close to the seashore. Thus, it may not be a coincidence that many of the best (in terms of plant appearance) Queensland neoregelia collections are found close to the coastline.
- Many of the green-leafed tillandsias and vrieseas which naturally occur in "cloud forests" (that is, those which are covered in mist for long periods on most days) with an altitude of 2000 metres or more will not survive in Queensland coastal locations for any length of time. This is a pity, as many of these plants are very beautiful when they are flowering.

Bromeliads are environmentally responsive. For example, a given plant's shape and size can vary significantly, depending upon the amount of shade and fertiliser it is given. So, if you wish to retain the size/leaf colouration of a plant you have just obtained, it is worth establishing the conditions under which it was grown previously.

The willingness of Keith and Jan Redhead to make their property available for the field day is much appreciated. Thanks are also due to Nancy Kickbusch and Norma Poole for operating the plant sales' table, everyone who brought a "plate" for morning tea, and those who helped out in a variety of other ways on the day.

Bob Reilly

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Vriesea 'Jeanie'

This is a John Arden hybrid whose parents are 'Van Ackeri' x 'Brentwood'. This is a complicated hybrid if you want to chase all the generations involved. However, this particular hybrid has a branched inflorescence that resembles the seed parent. The leaves have large areas of deep maroon especially near the base. There is a plant circulating in Queensland and now elsewhere that has leaves like 'Jeanie' but has a simple spike that resembles *Vriesea erythroductylon*.

When our plant of this name flowered we were worried about its identity and sent a photograph to John Arden for his comments. He did not recognise it as being any of his hybrids and was not able to help us. This is either a case of wrong identification or a hybrid done and no attempt made to register the name. I have taken the liberty of changing the name to 'Jeanie's Feather' (a minimal change). If you do have this plant, would you please change its name. If you know any history or parentage of this cultivar, please advise and the records can be updated.

Derek Butcher

BOOK REVIEW

Canistrum – Bromeliads of the Atlantic Forest written by Elton Leme. The book was published in 1997 by Salamandra Consultoria Editorial Ltda. It is available from overseas' distributors, and can be borrowed from the Society's library.

This book is the first volume of the "Projeto *Nidularium*". The other two volumes are: *Canistropsis – Bromeliads of the Atlantic Forest*, and *Nidularium – Bromeliads of the Atlantic Forest*. Both volumes can be borrowed from the Society's library. Collectively, the three volumes constitute a major taxonomic revision of the genus *Nidularium* and related species.

The book has 107 pages and over 60 colour photographs. Detailed botanical descriptions, as well as a commentary on their distribution and habitat, are presented for seven *Canistrum*, three *Edmundoa*, five *Wittrockia*, and four *Aechmea* species. A photograph of a flowering plant is provided for each species and, in some cases, a habitat photograph as well.

While many of the species are of limited horticultural appeal, some are very attractive. Examples include: *Canistrum seidelianum*, *C. fosterianum*, and *C. triangulare*; *Wittrockia superba*, *W. tenuisepala*, and *W. gigantea*; and *Aechmea echinata*.

The second part of the book consists of a discussion on the defining characteristics of *Hylaeaicum*, a neoregelia sub-genus (photographs of some of the species in this sub-genus are included); a commentary on *Aechmea aculeatosepala*; followed by black and white photographs of the "type specimens". Also included are line drawings of the defining characteristics for many of the species described in the book. A comprehensive list of references and an index complete the book.

While an understanding of botanical terms will help you when reading this book, such knowledge is by no means essential. Further, the book contains the most comprehensive published descriptions of the species in the *Canistrum*, *Edmundoa*, and *Wittrockia* genera, in a consolidated form. The book is well worth reading just for this information.

Bob Reilly

HYBRIDS

During the editor's recent visit to the North, I was introduced to a hybrid between *T. ionantha* and *T. ionantha* 'Druid'. My ancient information (orchids) told me you could not have a hybrid between varieties or forms of a species so I referred my concerns to the BSI Registrar for clarification.

Derek Butcher's reply was :-

"It is true that any crossing between and within a species is not considered a hybrid but what happens if it is decided by one botanist that a variety is really a separate species?! The argument of the lumper versus the splitter raises its head again! However this hybrid philosophy seems to prevail in the Orchid fraternity.

Only in 1995, did the real split come when all other plant groups outside Orchidaceae decided to concentrate on Cultivars. That is changing the emphasis from parentage to the appearance of the clone itself. All parentage does is give a guide to possible genetic differences: And there are thousands of plants out there where parentage is unknown or has not been disclosed because of competition fears.

In this case, 'Druid' is an 'albino' *ionantha* which may or may not transmit this characteristic in seed raising. To cross it with a 'normal' *ionantha*, means that there may be a chance that its progeny could also throw up a 'Druid'. There is already a 'Pink Champagne' listed with the parents you quoted BUT lots of people could have crossed these same parents and come up with a different plant. Therefore, they should check against a standard in the same way you do species. In this case, it is a photo which is on the register on BSI.org.

A formula is great for the hybridist but as soon as the plant leaves the hybridist's control it should have a cultivar name. I have been fighting the BSI Board for 2 years now trying to get them to understand that a formula does NOT identify an individual plant it identifies a grex; AND where the parents are themselves hybrids there can be lots of differences in the grex!

The World Conference is where the BSI is seen by others as to how professional it is. As such, they should set high standards. I have pointed out that they must differentiate between a formula plant that is being cultivated by others and thus a Cultivar, AND a formula plant shown by a hybridist to seek future orders, is not cultivated and is thus NOT a Cultivar! It is the formula plant that is in circulation that is a loose cannon!

So as you can see, I frown on the use of formulae outside the hybridist's domain. Once I get it accepted at top level, it will give greater emphasis in

encouraging others to identify their plants by naming them and sending photos to the Registrar.”

Further e-mails on the topic resulted in this plea from Derek “So Peter, you could use my answer in 'Bromeliaceae' and also put in a plea for more photographs to be taken so that those in the future will know what we are doing NOW. These photos could well be used in 'Bromeliaceae' in addition to sending a copy to the Registrar.”

Editors Note:- Due to the current procedure used in printing *Bromeliaceae*, the preferred format for photographs is a 150 x 100 mm photo print. In the future, I hope that we will be able to utilise digital photographs but there will be restrictions on the format (jpeg, etc)

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DIOECIOUS FLOWERING BROMELIADS

The term “dioecious”, which literally translated means “two houses”, is used to describe plants having the male and female “elements” of a “normal” flower on separate plants. Thus a given plant will have either the pollen-bearing elements, or those resulting in seed production, but not both. (This type of flowering behaviour can be distinguished from those plants, for example many *Cryptanthus* species, which have the male and female “elements” in different flowers but on the same plant.) A practical consequence of this situation is that both a “male” and “female” flowering plant is needed before seed can be obtained.

Benzing (2000) makes the following points about dioecious-flowering bromeliads:

- While some species in all three bromeliad sub-families exhibit this trait, most species do not. (In other words, most species have “perfect” flowers containing both male and female elements, or are said to exhibit hermaphroditism.)
- Most of the genera with a large number of species only have species with perfect flowers, with *Aechmea marie-reginae* being the single major exception. (On a personal note, if you have a female-flowering form of *Ae. marie-reginae*, and would like to swap a plant of it for a male-flowering form, please telephone me on 07 3870 8029!)
- All *Hechtia* species are dioecious.
- Some species, for example *Catopsis morreniana*, are usually dioecious, but have some perfect flowering plants. The reverse arrangement also exists, for example, with *C. heteroniana*. In other cases, for example *C. nutans*, whole populations (groups of plants in a specific location) are either entirely dioecious or perfect-flowered.

Dioecious flowering bromeliads occasionally seen in Queensland collections include: *Ae. marie-reginae*; *Catopsis hahnii*, *C. morreniana*, *C. nutans*, and *C. subulata*.

Reference Benzing D. (2000) *Bromeliaceae: Profile of an Adaptive Radiation*. Cambridge University Press: Cambridge.

Bob Reilly

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Members, especially country members are invited to list their hard-to-find items in the Wanted List. If any of the items are of interest, contact the member listed. Please contact the editor regarding changes to the list. Entries may be deleted after two issues. Key:- P Plant, O Offset, B Book, M Magazine, SI seedling, Date when plants or seed are available.

Member	Wanted		Phone
Michael Pascall	<i>Aechmea gigantea</i>	P S	07 4098 8253
Dorothy Cutcliffe	<i>Neoregelia carcharodon</i> (reddish)	P	07 3386 0505
Keith Pohlman	<i>Neoregelia</i> 'Absolutely Fabulous'	P	07 4151 5395
Doug Upton	<i>Aechmea retusa</i>	P	07 3378 3511
Keith Dawson	<i>Vriesea zamorensis</i>	P O	07 3285 6710
Keith Pohlman	<i>Neoregelia</i> 'Bailey'		07 4151 5395
Bob Reilly	BSI Journal 1995-2002 (Any Issue)	M	07 3870 8029
Available			
Peter Paroz	<i>Aechmea orlandiana</i> (Dark form)	P	07 3265 1547
Peter Paroz	<i>Tillandsia utriculata</i>	SI	07 3265 1547
Peter Paroz	<i>Tillandsia funckiana</i>	P	07 3265 1547

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