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CLIVIA NEWS

▼ QUARTERLY NEWSLETTER OF THE CLIVIA SOCIETY ▼



VOLUME 16 NUMBER 2 & APRIL - JUNE 2007

CLIVIA NEWS

THE OBJECTIVES OF THE CLIVIA SOCIETY

1. To coordinate the interests, activities and objectives of constituent Clivia Clubs and associate members;
2. To participate in nature conservation activities in relation to the protection and conservation of the genus *Clivia* in its natural habitat, to promote the genus *Clivia* and in that context also to promote the observation of conservation laws and practices;
3. To promote the cultivation, conservation and improvement of the genus *Clivia* by
 - 3.1 the exchange and mutual dissemination of information amongst Constituent Clivia Clubs and associate members;
 - 3.2 where possible, the mutual exchange of plants, seed and pollen amongst Constituent Clivia Clubs and associate members; and
 - 3.3 the mutual distribution of specialised knowledge and expertise amongst Constituent Clivia Clubs and associate members;
4. To promote the progress of and increase in knowledge of the genus *Clivia* and to advance it by enabling research to be done and by the accumulation of data and dissemination thereof amongst Constituent Clivia Clubs and associate members;
5. To promote interest in and knowledge of the genus *Clivia* amongst the general public; and
6. To do all such things as may be necessary and appropriate for the promotion of the abovementioned objectives.

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REPRESENTATIVES OF CONSTITUENT CLIVIA CLUBS

✧ Cape	Claude Felbert, Gerrit van Wyk and Johan Schoombée
✧ Eastern Province	André Calitz, Willie le Roux and Wimpie Maas
✧ Northern	Lena van der Merwe, Peter Bert and Bossie de Kock
✧ KwaZulu-Natal	Sean Chubb and Liz Boyd
✧ Free State	Hennie van der Mescht
✧ Garden Route	Gerrie Brits
✧ Joburg	Glynn Middlewick and Koos Geldenhuis

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The Clivia Society Newsletter started as a black on white newsheet dated July 1992, numbered Volume 1 number 1, called 'Clivia Club'. It formed a means of communication for people interested in the plant genus Clivia. It was edited/written by Nick Primich with a frequency of 3, 5, 8 & 5 during the 1st 4 years, using the publication month in the volume.

The frequency was fixed on 4 with vol. 5 # 1 of March 1996.

The date changed to the Southern Hemisphere seasons with vol. 8 # 1 of Autumn 1999. The 1st three used yellow paper as cover. The name changed to 'CLIVIA CLUB NEWSLETTER' with vol. 9 # 1 Autumn 2000 with full colour photos on the cover pages. Another name change to 'CLIVIA SOCIETY NEWSLETTER' came with vol. 10 # 4 Summer 2000, and in 2005 reverted to a quarterly number.

CLIVIA NEWS is the continuation of this series.

EDITORIAL

Once again a year has flown, and what a year!

Because of the reporting of the activities of the Society in the Newsletter, there has always been enough material to make up a maximum of a 32 page issue, which seems to have become the norm. The feature contents is however dependant on the contributions from the membership.

It seems that the electronic media, and perhaps the success of Cultivation of Clivias/ Kweek van Clivias has reduced the print demand for Questions and Answers.

Also not much by way of correspondence is submitted.

There has however been a steady flow of material of members volunteering contributions. In this regard I must in particular thank Tino Ferero, John van der Linde, Cynthia le Roux and the Abels, James and Connie.

The ease of colour reproduction at minimal extra cost has also helped diversify the kind of material that can be printed and added to the attractiveness of Clivia News, which regularly draws compliments. For this we must thank Fréda van Wyk for her contribution as layout artist, who often has to fit the late demands of an editor into her hectic schedule!

The issue for the Clivia 2006, the 4th Quadrennial International Conference of the Clivia Society made particular demands because of the diversity of material it carried and the earlier deadline, but with the Clivia stamp issue as a feature, has made it a collector's item.

I wish to thank Chris Vlok for his support in his term as Chairman of the Society and wish him happy cliviating whenever he gets a chance to don that hat.

Then, as always, my thanks to Lena van der Merwe and Bossie de Kock for support and diligence in getting the production, printing and posting of the Newsletter done promptly and efficiently, and without complaint!

I suggest the Society set up a publications committee for the co-coordinating of the publishing efforts, strategizing of contents of the various publications, and the managing, sharing and archiving of material.

The possibility of publishing electronically should not be lost off the radar screen. Should this come to pass, the then editor must remember that such a publication must be done under a separate and unique ISSN number.

Roger Fisher – Editor



Clivia2006 Conference available on DVDs

The Clivia Society has decided to make the Clivia2006 conference proceedings available on a double DVD. The presentations have been recorded, edited, and shortened to almost eight hours viewing time. The DVD set can now be ordered from the secretariat of the Clivia Society at a

price equivalent to ZAR 220.00 (including postage and packaging). Should you be interested, please contact Bossie de Kock at one of the following addresses: Clivia Society; P.O. Box 74868, Lynnwood Ridge, 0040 Pretoria, South Africa. Fax: +27 12 804 8892 E-mail: bossiedekock@absamail.co.za



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CLIVIA SOCIETY MATTERS

Chair's Report submitted to the 2007 Annual General Meeting of the Clivia Society

Dear Clivia Society Management Committee, Club Representatives, Club Members, Ladies and Gentlemen.

Thank you for the opportunity to reflect on what has been achieved and what has not been achieved since we last met in George in May 2006.



Chris Vlok in the Chair

The highlight of the year was without doubt the effort of the Northern Clivia Club and especially the Organizing Committee of Clivia2006 in staging a wonderful range of well-organized events in support of the 2006 Clivia Society Conference. I was privileged to serve on the organizing committee and know what amount of creative thinking, time, hard work and stress it took to organize Clivia2006. Thank you:

- Peter Lambert for coordinating the event, managing the organizing committee and your tireless effort to market and publicise Clivia2006. Thank you also for your negotiations with the Philatelic Services of the South African Post Office that eventually ensured the depiction of the entire range of Clivia species on South African postage stamps.
- Lena van der Merwe and Bossie de Kock for taking care of the administration, the finances, the registration, the Clivia memorabilia, etcetera. I sincerely hope that in 2010 you will be able to relax and also attend (not present at) a Clivia conference;
- Roger Dixon for sourcing the presenters covering a wide range of most interesting topics;
- Sakkie Nel, Koos Geldenhuis and Danie Botha for all the effort that made the auction such a big success. Sakkie and James, your efforts in sourcing Clivia stamps from all over the world have not gone unnoticed and is much appreciated;
- James Abel for your magnificent effort in providing the opportunity for delegates to experience different regions of South Africa and especially Clivia in habitat.
- Christo Topham and Koos Geldenhuis for coordinating the 2006 South African National Show and the judging of the entries respectively.
- Roger Fisher, our Public Relations Officer who took care of Xueguan Song's delegation from Chang Chun in China.

Many other people across South Africa contributed to the success of Clivia2006. I'm referring to those of you who have organized welcome functions, garden and other special visits, Clivia festivals, habitat tours and who have shared your houses, Clivia collections and hospitality with the delegates from abroad.

The Clivia Society is grateful for the fact that a surplus has been achieved. This would have been difficult to achieve without a contribution



Dr Peter Lambert, newly elected Vice-Chair of the Clivia Society with retiring Vice-Chair, John van der Linde (left)

of R5 000,00 from Efekto and a most generous sponsorship of R20 000,00 received from the Development Bank of South Africa. Thank you Norman Weitz for your role in securing the latter sponsorship. Another major contribution to the positive financial figures of the Conference is the fact that the Northern Clivia Club has channeled 50% of the profit generated by the auction to the coffers of the Society – we sincerely appreciate this gesture of goodwill towards the Clivia Society.

After the success of Clivia2006 it is rather disappointing that no Club has volunteered to host the conference in 2010. Yes, it is hard work, but it is also satisfying to eventually realize it was a job worth doing with an outcome to be proud of. I am serious when I say that Clivia2006 was not only an event on which the Clivia Society and the host club can be proud of – South Africa can indeed be proud of what has been offered and achieved. A major advantage for future hosts of Clivia Society conferences is that a basic model now exists. The learning curve need not be that steep again. All the documentation has been published on the Clivia Society website and it can be adjusted to suit the requirements of future conferences. If a decision is not taken today or very soon hereafter, the Clivia Society will have to seriously consider outsourcing certain elements of the conference. I'm also of the opinion that not all elements of the conference necessarily have to be organized by the host club. In this regard I refer to aspects such as the invitation of speakers, organization of pre and/or post conference tours, compilation of the conference program, the set-up of a conference website and perhaps also pre-conference registration.

Our flagship publication, the annual Yearbook was once again very well received. John van der Linde, Claude Felbert and Roger Dixon – I can just say "Wow!" A special word of thanks to John who has decided to call it a day – but fortunately only after Clivia 9 has been published later this year. Claude, you again deserve a round of applause for your initiative to ensure top quality Clivia photos through the Clivia photographic competition. I heard rumours that Claude intends to step down in 2008 after being involved with the Yearbook for a period of ten years. It is crucial that the Society now starts thinking about replacements for John and

Claude. We cannot wait until the 2008 AGM to fill for example the vacancy left by John. It must be done in 2007.

Roger Fisher, thank you for the fresh approach to our quarterly newsletter. As with the Yearbook it is not an easy job sourcing enough contributions in time for publication. Please, give Roger and the Yearbook team the cooperation they need and deserve.

I doubt whether all Society and club members realize the importance of special initiatives in securing a positive balance in our financial statements. In this regard I'm thinking of:

- Cultivation of Clivias and Kweek van Clivias that have just been revised and republished. Thank you Lena.
- The initiative of Claude Felbert in producing a double DVD of the Clivia2006 conference proceedings.
- Clivia Society and Club officials who are selling these items at shows and at Club meetings.

I'm also thinking of the initiative of Neil Nathan who has kindly scanned those versions of Yearbooks for which no electronic back up has been kept. I suggest that the Management Committee prepares a project proposal to the Clivia Society regarding the publication of Yearbooks on CD.

During his visit to South Africa in 2006 informal discussions were held with Ian Coates regarding the publication of a book on *Clivia in habitat* – richly illustrated with photographs. Ian expressed keen interest in the concept and plans to visit South Africa again later this year to photograph *Clivia* and especially *C. nobilis* and *C. mirabilis* populations. I recommend that the new Management Committee, in collaboration with the Public Relations Officer, considers the concept and enter into a formal agreement with Ian.

At the 2006 Annual General meeting it was decided that the Clivia fraternity be invited to submit names of persons who have made a difference in the Clivia World. It was pertinently stated that a nominee need not be a member of the Clivia Society or a club affiliated with the Clivia Society. A committee consisting of Hennie van der Mescht, Peter Lambert, Andre Callitz and myself considered the received nominations. Not a single nomination was rejected. We also

PHOTO: ROGER DIXON



John van der Linde and Chris Vlok, retiring Chair and Vice-Chair of the Clivia Society with certificate of appreciation.

clubs. From the reports it is clear that Clivia is thriving at grassroots level. We are grateful to club officials for their efforts in introducing the general public to Clivias and organizing activities that maintain the interest of club members. The clubs are the heart of the Clivia Society. I firmly believe that a major factor contributing to the vibrancy of our Society is that we have a constitution that allows affiliated clubs the breathing space to develop at their own pace in a unique manner that suits them best.

accepted late nominations because it later appeared that not everyone understood that the award could be made in postuum. Eventually the special merit certificates were awarded to the following recipients: Ian Brown, Sean Chubb, James Comstock, the late David Conway, Bossie de Kock, Mick Dower, Claude Felbert, the late Ammie Grobler, Dr Keith Hammett, Pen Henry, Toy Jennings, Prof Harold Koopowitz, Willie le Roux, Christo Lötter, Rudo Lötter, Brenda Nuss, Ken Smith, Joseph Solomone, Brian Tarr, Val Thurston, Dr Lena van der Merwe, Kevin Walters, the late Dr Bing Wiese and the late Gert Wiese.

Without doubt there are other persons who also deserved a special thank you from the Clivia Society for whom we did not receive nominations. I do not want to embarrass individuals by mentioning names but I do know that some persons were not nominated simply because the weeks immediately before Clivia2006 demanded undivided attention from many of us. I trust that those persons who have been overlooked will accept the oversight with grace.

Thank you to those Clubs that have submitted reports reflecting their activities. It does make very interesting and positive reading. A warm welcome to Northern Free State Clivia Club – the latest addition to our family of constituted

On the international front we had our ups and downs. Tax legislation in the United States made it impossible for Jim Black to open a bank account on behalf of the Clivia Society. At the time of writing this report it looks promising that the North American Clivia Society will be prepared to administer Clivia Society membership payment via their account. We gladly accepted an offer from the New Zealand Clivia Club to administer Clivia Society membership in their country. The New Zealand Clivia Club also indicated that a proposal to seek affiliation with the Clivia Society will be tabled at their Annual General meeting later this year. We are anxiously awaiting the outcome.

Congratulations to Aart van Voorst and Tony Barnes for being re-appointed as representatives of Clivia Enthusiasts. The appointment of a representative for the Americas will be dealt with at the meeting. I want to thank Dr Hamish Sloan for administering the UK members for the past three years. Welcome to Jaco Nel, the new representative of our members in the United Kingdom.

Another highlight was that we agreed earlier this year to contribute an amount of R60 000 to the Clivia research currently undertaken under the leadership of Prof Johan Spies at Free State University.

PHOTO: ROGER DIXON



Prof Johan Spies, receiving congratulations from Chris Vlok on his election to Chair of the Clivia Society

During Clivia2006 we created an opportunity for members of clubs to tell us what exactly they expect from the Clivia Society and if necessary in what way the Clivia Society should change to meet expectations. In the past I occasionally heard that there is a need for a South African Clivia Society. To my relief this was never mentioned at the workshop.

Another workshop dealt with informing the members of the status quo regarding standards for judging. When writing this report I had not seen Roger Dixon's report on Standards and Judging. The world out there looks to us for guidance. It is essential that the status quo be communicated through a Society newsletter and that the very latest documentation be uploaded on the Clivia Society website.

During the past six years I was privileged to have a very capable and supportive Management committee. When advice was sought via e-mail late in the evening it was usually Ken Smith who responded first from "Down Under". Ken, we valued your input as an additional member of the Management Committee. John van der Linde, the new Management Committee will miss your calm and objective view of affairs. Enjoy the well-deserved rest, your Clivias, your grandchildren and the companionship of Beth

when touring the world.

How can I ever thank Bossie and Lena in a manner that will do proper justice to the time they spend on Clivia Society affairs? Their dedication to their Clivia Society responsibilities is remarkable. During the past year I found it very difficult to attend to Society matters on a continuous basis. Thanks to their experience, loyalty and efficiency the wheels of the Clivia Society just kept turning.

It was indeed an honor to serve a great society such as the Clivia Society. I'm a bit burned out and need a rest. My Clivias also need tender loving care after some years of neglect. Thank you for the support and friendship often showed by a friendly and encouraging e-mail or a telephone call.

I know the constitution and can therefore take the liberty of wishing Prof Johan Spies all of the best as new Chair of the Clivia Society. It is good to step down as chairman knowing that the Clivia Society is in the hands of a capable and enthusiastic team. It is also appropriate that we now have a person with a sound background in plant science to steer the Society to new avenues and ventures.

AC Vlok

FORTHCOMING EVENTS

CLUB SHOWS FOR 2007

NAME OF CLUB	SHOW DATE/S '07	TIMES	VENUE	ENTRANCE FEES	CONTACT PERSON
Border Interest Group	27 September – 7 October		Pioneer Nursery		John: 082 567 7069
Cape Clivia Club	22 – 24 September	09:00 – 17:00	Belville Civic Centre	R5.00 per person over 12 years	Joy: 021-671 7384 Gerrit: 021-976 8924
Eastern Province Clivia Club	22 - 23 September	Saturday: 08.30 - 17.00 Sunday: 08.30 - 16.00	Verkenner School Hall, Salvia Crescent, Linton Grange, Port Elizabeth	R5.00 per person over 12 years	Andre: 082 574 9058 Gideon: 083 463 5416
Free State Clivia Club	15 September	Saturday: 9:00 - 14:00	Bloemfontein Laerskool, Bloemfontein	R 5.00 per person: Children R2.00	Hennie: 083 5119519 / 051-5229530 Piet: 051-5228963 Ida: 072 613 6066
Garden Route Clivia Club	29 - 30 September	Saturday: 09:00-17:00 Sunday: 09:00 – 13:00	Laerskool Outeniqua c/o Cradock & Cathedral Streets, George		
Joburg Clivia Club	15 - 16 September	Saturday: 09:00 – 17:00	Garden World Nursery, Beyers	R10.00 per person over 12 years	Braam: 011-475-2586 Glynn: 082 650 1463 Val: 031-7635736 Brenda: 033-3434313
KwaZulu Natal Clivia Club	8 - 9 September	Saturday: 09:00 – 16:00 Sunday: 09:00 – 15:30	Naude Drive, Muldersdrift Royal Show Grounds, Pietermaritzburg	Entrance Fee R10	
Lowveld Interest Group	8 - 9 September	Saturday: 09:00 - 16:00 Sunday: 09:00 - 12:00	Bergvlam Hoërskool, Nelspuit	R10 per person & R5 per vehicle	Daan: 084 581 0368 Paul: 082 578 5289 Ian: 082 379 0405
Northern Clivia Club	1 - 2 September	Saturday: 08:00 – 17:00 Sunday: 09:00 – 15:00	St Mary's Diocesan School for Girls, Duxbury Rd, Hillcrest, Pretoria	R15.00 per person over 12 years	Christo Topham 082 497 5879
Northern KZN	25 August	Saturday: 9:00 - 16:00	Newtech, FW Beyers Drive, Barry Hertzog Park, Newcastle		Hottie: 034-318 1327
Overberg Clivia Interest Group					
Waterberg Bosielieklub	24 – 25 September	Friday: 08:00 – 18:00 Saturday: 08:00 – 15:00	Doppersaal, Nylstroom	R5.00 per person	Ans: 014-717 3674 / 082 372 0765

The Cape Clivia Club will also be having Clivia Displays at the Sanlam Hall at Kirstenbosch from 7 to 9 and 28 to 30 September and at the Eversdal Primary School, Durbanville from 8 to 9 September, all from 09:00 to 17:00

NEWS AND CORRESPONDENCE

A story which you might find of interest

These seeds were found in an envelope in the pocket of a coat given to Charity some years ago. The envelope was merely labelled 'Interesting Clivia. 2003'. Knowing my interest, I was given the seeds – in exchange for a donation, of course.

The Charity confirmed that the coat had indeed been with them for four years in a crate in their warehouse until recently sorted for distribution. All are now healthy seedlings – and some poor unfortunate has a new coat. The moral for me is that, if you have to store seeds before planting, keep them safe and clean within their pod.

Ian Coates, England



Images are of a rather dry Clivia Miniata seed pod and the seeds it contained



PHOTO: IAN COATES

PHOTO: IAN COATES

STORIES BEHIND THE COVERS

Front Cover – Photo – Gerhard Faber

This is 'Candy Carousel', a *C. mirabilis* originating from habitat in the collection of Gerhard Faber. The leaves show the characteristic medial α -chlorophyll line. It is novel in that the tubular flowers flare at the mouth, uncommon in the species. It should be interesting in a hybridising programme and is one to watch.



Back Cover

A composite of New Zealand Clivia and other scenes as appetite whetter for the Kiwi 2008 visit. See this issue for more details.

HONORARY LIFE MEMBERSHIP CITATIONS

MICK DOWER

[See picture and citation in Clivia News Vol 16 No 1pp. 8-9 – Ed]

We can relate a lot more about him, but we are sure you will agree that Mick deserves recognition by the Clivia Society.

Proposer: Cape Clivia Club

Seconder: KZN Clivia Club

TINO FERERO

The Northern Clivia Club would like to nominate Tino Ferero as an honorary life member of the Clivia Society.

The following points serve as motivation for the proposal from the Northern Clivia Club:

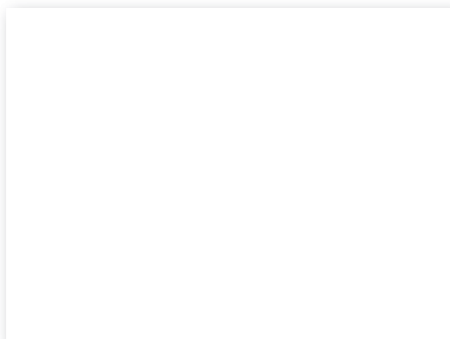
- Tino's interest in clivias started in 1990. He joined the then Clivia Club now the Clivia Society in 1996 and is a founder member of the Northern Clivia Club.
- During 1997, a very stormy period for the Clivia Club (now the Society); Tino was approached to serve as chairman of the Society which he did with dedication until 1998.
- During the following years, under Tino's able leadership and vision the orderly division of the Clivia Society and the Northern Clivia Club took place. This task was executed with great success and many hours of behind the scene negotiations.
- Tino was elected as Chairman of the Northern Clivia Club in 2000, a position he successfully held for the following four years.
- During his chairmanship he acted as the key person for the development of a respectable constitution for the Northern Clivia Club as well as for the Clivia Society. The latter after the management of the Clivia Society approached him to aid them with the drafting of a suitable constitution. Tino, in co-operation with Adv. Gerrit Grobler, spent many days and nights drafting the various aspects of the constitution to suit the members and also fulfil all legal requirements. This initiative of Tino saved the Northern Clivia Club as well as the Clivia Society thousands of Rands, because he and Adv. Grobler did this difficult selfless task free of charge.

- Tino was part of the original team responsible for the drawing up of the clivia show rules and standards with the classification of the plants into groups, sections and classes. This he did with passion and perseverance.
- Tino is now one of the Northern Clivia Club's master judges and as such his services are in great demand countrywide.
- Tino's reputation as a clivia grower and judge extends worldwide and he corresponds with dozens of clivia enthusiasts, both nationally and internationally. With the assistance and generosity of Tino, many clivia enthusiasts were recruited into the Northern Clivia Club and Clivia Society.
- Tino regularly displays his plants at the clivia shows. He has had great success on the show bench and has walked away with the Best on Show trophy at the Northern Clivia Club Show and has exhibited his plants at other clivia shows with good results.
- As a master judge, Tino remains active in the development of standardising show judging requirements for both the national and international clivia clubs and associations.
- Tino is a honorary member of the Northern Clivia Club.

We consider Tino a worthy member to be bestowed with an honorary life membership of the Clivia Society. We propose that he be awarded an honorary life membership of the Clivia Society.

Proposer: Northern Clivia Club

Seconder: Joburg Clivia Club



Tino Ferero receiving his Certificate of Honorary Life Membership

HABITAT CLIVIA

Clivia and the implications of the new RSA legislation

The regulation relating to listed threatened and protected species made by the Minister of Environmental Affairs and Tourism in terms of section 97 of the National Environmental Management: Biodiversity Act, 2004 (Act No. 10 of 2004), is indeed good news for all Clivia breeders/growers/sellers. The Regulations are final and will come into effect on 1 February 2008. All Clivia except *Clivia mirabilis* will be exempted under the new Regulations but it is very important to note that it does not replace the current provincial legislation. It is, however, a definite step forward and indications are that the provinces will follow suit and exclude all Clivia except *C. mirabilis* from their protected species lists. The genus Clivia is a protected species in all the provinces of South Africa and the following controlling legislation is important:-

- The Nature Conservation Ordinance, 1983, (Ordinance No.12 of 1983) governs the Eastern Transvaal, Northern Transvaal, North-West and the Pretoria-Witwatersrand-Vereeniging areas. The Kwazulu-Natal Conservation Management Amendment Act, 1999, No.5 of 1999 lists all Amaryllidaceae species and includes the genera Clivia as a protected species. This followed Act No.9 of 1997.
- The Nature Conservation Ordinance, 1974, (Ordinance No.19 of 1974) governs the Western Cape, Northern Cape and the Eastern Cape.

Clivia enthusiasts unintentionally contravene the stipulations of this controlling legislation through ignorance of the law. Clivia (including seed) are sold and exported across provincial and national boundaries without the necessary permits on a daily basis and the fact that the authorities do not enforce the legislation encourages further illegal activities. All of this can be avoided by just obtaining the following at no cost:

1. A certificate of registration as flora grower.
2. A licence to sell protected flora.

Simple procedure to apply for the permit and licence

- Contact your nearest Nature Conservation office and get the one page application form. A short form regarding your property and a written report about the origin of your clivias accompany the application.
- An on-site inspection follows and the official submits his recommendation with the application.
- The permit and licence are issued free of charge within a month or two.

New TOPS (threatened or protected species) regulations

As of 1 February 2008 only *C. mirabilis* will be protected on national level and it is the only Clivia species we need to deal with regarding the new legislation. The following is a summary:



C. mirabilis in habitat – only known Western Cape locality of any Clivia

PHOTO: TONY BARNES

1. *Clivia mirabilis*/"Oologskloof" Bush Lily is included in the protected species list as published by the Minister.
2. Permits are required to perform restricted activities as defined in the Act:

"Restricted activity" -

- (a) in relation to a specimen of a listed threatened or protected species, means-
 - (i) hunting, catching, capturing or killing any living specimen of a listed threatened or protected species by any means, method or device whatsoever, including searching, pursuing, driving, lying in wait, luring, alluring, discharging a missile or injuring with intent to hunt, catch, capture or kill any such specimen;
 - (ii) gathering, collecting or plucking any specimen of a listed threatened or protected species;
 - (iii) picking parts of, or cutting, chopping off, uprooting, damaging or destroying, any specimen of a listed threatened or protected species;
 - (iv) importing into the Republic, including introducing from the sea, any specimen of a listed threatened or protected species;
 - (v) exporting from the Republic, including re-exporting from the Republic, any specimen of a listed threatened or protected species;
 - (vi) having in possession or exercising physical control over any specimen of a listed threatened or protected species;
 - (vii) growing, breeding or in any other way propagating any specimen of a listed threatened or protected species, or causing it to multiply;
 - (viii) conveying, moving or otherwise translocating any specimen of a listed threatened or protected species;
 - (ix) selling or otherwise trading in, buying, receiving, giving, donating or accepting as a gift, or in any way acquiring or disposing of any specimen of a listed threatened or protected species; or
 - (x) any other prescribed activity which involves a specimen of a listed threatened or protected species;

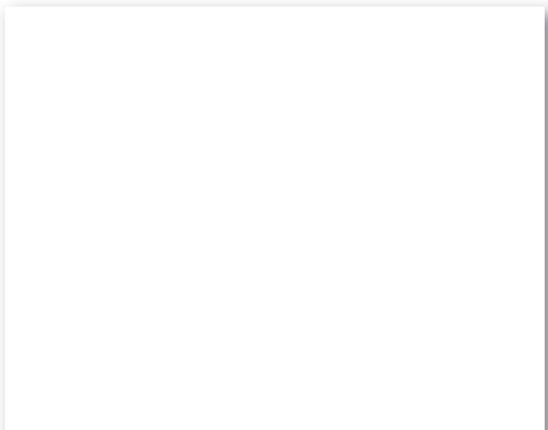
3. This definition read in conjunction with other definitions make it very clear that:-

- Possession permits are required to own/possess *C. mirabilis*. The cost is R50-00 and it is valid for 54 months. A further permit is required if you want to do anything else with your plant like selfing or cross pollination.



C. mirabilis bud – note anthocyanin laden peduncle and absence of distinctive mid-leaf stripe

PHOTO: TONY BARNES



C. mirabilis bud just prior to blooming – note pale flowers

PHOTO: TONY BARNES

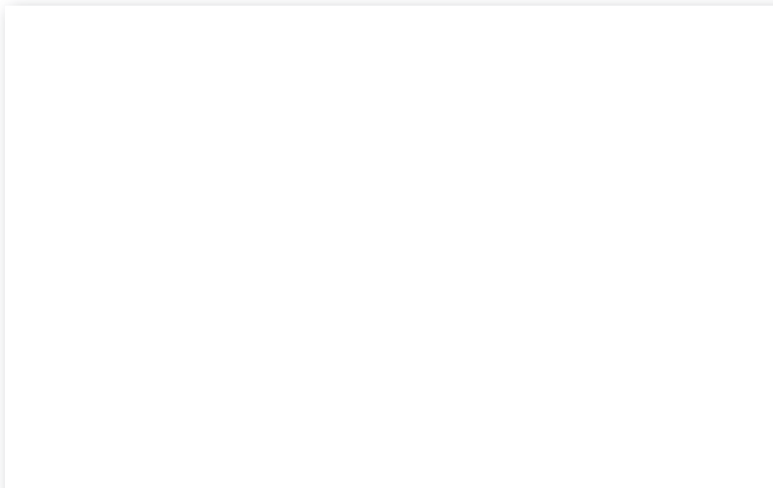
- Permits are required for all interspecific plants that have *C. mirabilis* in their genetic make-up. This and interspecific breeding with *C. mirabilis* are clearly dealt with in the definition of species in the Act:

“Species” means a kind of animal, plant or other organism that does not normally interbreed with individuals of another kind, and includes any sub-species, cultivar, variety, geographic race, strain, hybrid or geographically separate population;

- Permits are required for tissue culture and micro propagation and are dealt with in the definition of specimen in the Act:

“Specimen” means-

- (a) any living or dead animal, plant or other organism; or
 - (b) a seed, egg, gamete or propagule or part of an animal, plant or other organism capable of propagation or reproduction or in any way transferring genetic traits;
 - (c) any derivative of any animal, plant or other organism; or
 - (d) any goods which-
 - (i) contain a derivative of an animal, plant or other organism; or
 - (ii) from an accompanying document, from the packaging or mark or label, or from any other indications, appear to be or to contain a derivative of an animal, plant or other organism;
- Permits are required for transporting plants/seeds across international boundaries and the cost will be R50-00 per permit for any given consignment.
 - Registered nurseries may buy nursery possession permits at a cost of R500-00 per booklet (20–25 permits). This covers the buyer and authorizes the sale, transportation, conveying and possession of a plant for 1 year. Within this year the owner must apply for a possession permit. Alternatively the nursery can apply each time they do a sale but that is more expensive and time consuming.
 - Registered nurseries may apply for a standing permit that is valid for three years.
4. Integrated permits can be applied for if duplication occurs between provincial legislation and the regulations and a permit has already been issued by the provincial authorities. No further inspections will be held and it will be a mere formality. A good example is the need for permits for *C. mirabilis* from provincial as well as national legislation.



C. mirabilis in flower

5. A very important piece of information is Regulation 71(1) and (2) in Chapter 8, 'Miscellaneous' that deals with transitional provision for existing nurseries. It states in short that if you have a nursery permit by 1 February 2008, you must within 3 months after that date apply for new registration. If it is refused because the applicant does not meet the requirements for a nursery, then the issuing authority must, after notifying the applicant of the refusal, afford the applicant an opportunity to comply with such requirements and to reapply within 9 months after the refusal.

This means that if you comply with all the requirements, your licence must be issued and cannot be refused. It further effectively extends your licence for another year after 1 February 2008 (3 months + 9 months).

Conclusion

All the Clivia species are protected and everybody should apply for the necessary permits and licenses. It is the right thing to do and Clivia Clubs should assist their members in this regard. There are definite advantages to get a licence before 1 February 2008 and everybody must hurry up to get their permits in place. It is against the law to trade in Clivia plants and seeds without a licence and the sooner we start living a law abiding Clivia culture, the better our Clivia future will be.

By Gerhard Faber

Magdel Boshoff of DEAT, Pretoria, Jaap Pienaar of Eastern Cape Nature Conservation, Bisho and Natalie Baker of Cape Nature, George have all been most helpful in providing information for this article.

GROWERS AND BREEDERS NOTES

How do you explain this phenomenon?

At one of the Northern Clivia Club meetings in Pretoria, the plant depicted in Figure 1 was presented by Mr Sakkie Nel. The plant started off as variegated (see bottom leaves), then produced an albino shoot (on the right) after which the new leaves of the mother plant 'switched' to green, without any variegation. The question raised was, how can this phenomenon be explained? In an attempt to do so, it is important to first get a clear understanding of, a) the concept of variegation and b) how clivia leaves and buds are produced.

Since variegation in clivia has not previously been studied, the explanation presented in this paper is based on general information obtained from the literature and is therefore open for criticism. I also have not handled the plant myself and had to rely on the photograph depicted in Figure 1.

Variegation

Variegation is the appearance of different colour zones in leaves and sometimes on stems of plants. In the case of Clivia, the variegation is the result of a mutation in the chloroplast DNA, causing the absence of the green pigment chlorophyll of the



Figure 1. Sakkie Nel's variegated plant with albino lateral offset, and green offset

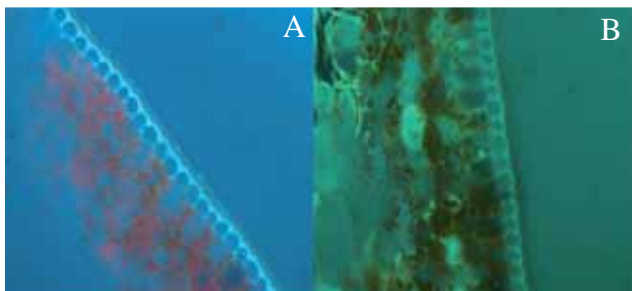


Figure 2. Micrographs of clivia leaf sections showing red fluorescence of green chloroplasts (A) and non-fluorescing, mutated chloroplasts (B). Cells with mixed chloroplasts are visible among cells with red fluorescing chloroplasts in A. Note the bright epidermis without chloroplasts. The bright cells in B contain slime.

mutated chloroplast resulting in a cell with mixed chloroplasts. This statement is based on information found in Kirk & Tilney-Basset (1978): "The cytological observation of mixed cells containing two morphologically distinct plastids is widely accepted as evidence that sorting-out variegation results from plastome mutation rather than a mutation in any other extra-nuclear genetic particle". A mutation may occur in a single cell of the apical dome. After many divisions of the cell containing the mutated chloroplast, and its derivatives, and the independent multiplication and random segregation of the chloroplasts in the cells, cell lineages containing mutated, mixed and non-mutated chloroplasts are formed (Figures 2, 3 and 4). These different cell lineages eventually cause variegation in leaves.

When leaf sections of variegated clivia or any other chloroplast-containing plant material are viewed under a microscope using ultraviolet light, the pigment chlorophyll in green chloroplasts gives a bright red fluorescence while mutated chloroplasts do not fluoresce.

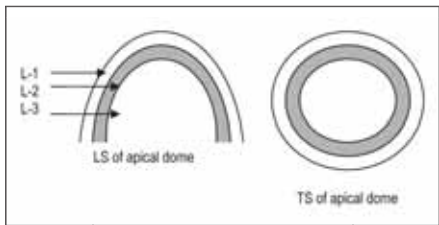


Figure 3. Diagrams of a periclinal chimera shown in a longitudinal section (LS) and transverse section (TS) of the apical dome. The shaded area (L-2) represents the cell layer containing the mutated cells after sorting-out as illustrated in Figure 3 and 4

This phenomenon is clearly illustrated in Figure 2A and 2B, taken from hand sections that were made from a variegated clivia leaf. Bright red chloroplasts appear in the green stripes, greenish, non-fluorescing chloroplasts appear in the white stripes while mixed red and greenish chloroplasts appear in the light green stripes.

Structure and function of the apical meristem or apical dome

The growing point of flowering plant shoots consists of meristematic cells and their only function is to divide to produce new cells for shoot growth. These meristematic cells

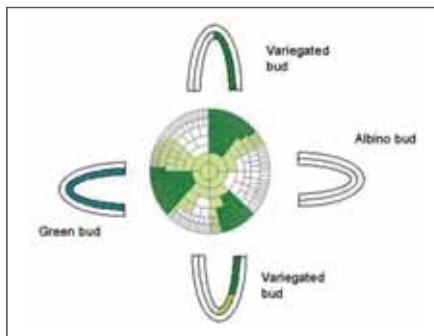


Figure 5 Diagram of a 'flattened' second cell layer of the apical dome (Fig 3) to illustrate sorting-out and possibilities of bud formation. The circles and radial lines represent anticlinal cell divisions, starting with a single cell in the middle containing mixed chloroplasts (Figure 3) in the middle. During cell divisions and chloroplast multiplication, chloroplasts segregate randomly and cell lineages with different chloroplast combinations are formed. Green = cells with green, non-mutated chloroplasts; light green = cells with mixed chloroplasts; yellow = cells with mutated (albino) chloroplasts (NB cells are supposed to be of similar size)

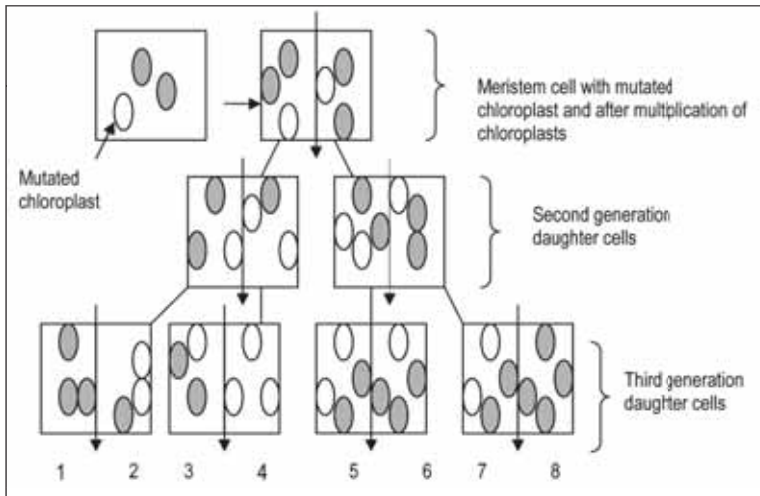


Figure 4. Diagram illustrating anticlinal cell divisions (arrows) and the possible sorting-out of mutated and non-mutated chloroplasts after a few cell generations. In the fourth cell generation (not shown in diagram), the daughter cells of cells 1 and 8 will give rise to green cell lineages, daughter cells of 2, 3, 5, 6 and 7 will give rise to light green cell lineages with mixed chloroplasts, while daughter cell 4 will give rise to a white (albino) cell lineage in the apical dome. The progeny of cells with mixed chloroplasts may again split into albino, green or mixed

are grouped together in a dome-like structure known as the apical dome and are arranged in layers (L-1, L11, L-111 and sometimes L-1V Figure 3). All the cells in the outer or L-1 layer, divide perpendicular to the surface of the dome (anticlinally) and their offspring eventually give rise to the epidermis of the leaf and stem. The epidermal cells do not contain chloroplasts and therefore have no effect on variegation. Cells in the L-2 also primarily divide anticlinally, but can also divide periclinally (parallel to the surface of the dome) and their offspring give rise to the middle layers (mesophyll) of the leaf, and sub-epidermal layers in the stem. The offspring of the deeper L-111 and, if present, the L-1V layers give rise to the inner core tissue of the stem, including ground tissue and vascular tissue.

When a new leaf is initiated (See Robbertse 2003), a small group of the L-11 and L-3 cells in predetermined positions, divide periclinally to form a protuberance that becomes the leaf primordium. Mutated cells in one or more of the L-layers results in an apical meristem containing a mixture of mutated as well as non-mutated cells giving rise to leaves and stems with a

mosaic of two different genotypes and this is known as a chimera. There are different kinds of chimeras, but in the case of variegated clivia, it is probably a periclinal chimera, since the mutated cells occupy only the second (L-2) cell layer as shown in Figure 3. Figure 4 gives a simplified explanation of the process of anticlinal cell division, independent chloroplast multiplication and random segregation of chloroplasts in the daughter cells.

Sorting-out of mutated, non-mutated and mixed cells in the apical dome

Chloroplasts are separate units in the cell and multiply by means of division, during cell enlargement after cell division. During successive cell divisions chloroplasts can sort out randomly to produce cells containing either, only mutated, only non-mutated or mixed chloroplasts, as shown in Figures 2A and 4. In the apical dome these cells will form lineages of colourless cells, green cells and light green cells in the apical dome (Figure 5). Leaves developing from the apical dome will then be variegated, with white, green or light green stripes. A leaf developing

from the right half of the apical dome illustrated in Figure 5, will, for example, have a light green stripe on the side (bottom right in Fig 5), followed by green, white, light green and green stripes. A leaf developing from the left side of the apical dome in Figure 5 will be different with a white stripe on the side (bottom left in Figure 5) followed by green, light green and white stripes. This also explains why the two variegated leaves in Sakkie's plant (Figure 1) do not look the same. In practice the initiation of one leaf primordium in clivia takes up more than half the volume of the apical dome, which is more reason for pattern variation in successive leaves.

Origin of buds

Since buds develop in leaf axils, they develop from the same cell layers as those from which the subtending leaf developed. Clivias do not have typical axillary buds as in most other flowering plants, but have a rim of meristematic tissue in the wide leaf axils. Lateral buds can therefore develop from a segment of the rim containing either mutated (albino), non-mutated (green) or mixed chloroplasts, or combinations of the three types. It is therefore possible for a lateral bud to develop solely from the white (albino) cell lineage (right side in Figure 5). This will explain the albino shoot in Sakkie Nel's plant (Figure 1). Since buds can develop from any position around the stem that derived from the apical dome (illustrated in Figure 5), it also explains why lateral shoots on variegated plants very seldomly have the same appearance as the mother plant. During flowering the apical dome produces the inflorescence and growth is continued by means of a bud forming in the axil of the most terminal leaf primordium. According to Figure 5, variegation in this bud may also differ from that of the original apical dome.

What about the green leaves on the mother plant?

I do not think it is possible for the apical meristem of the variegated mother plant to suddenly switch from producing variegated leaves to producing green leaves. The only explanation I have at this stage is that something led to the abortion of the apical meristem of the mother plant and that a new lateral bud developed from the green cell lineage of the dome (left side in Figure 5). The green leaves, therefore, must be the leaves of a separate lateral shoot and not those of the original growing point of the variegated mother plant.

In the explanation above, I have concentrated on chloroplast segregation during anticlinal cell divisions only. During leaf and bud formation, concurrent anticlinal as well as periclinal cell divisions occur. This makes the segregation of chloroplasts even more complicated since cells with green, mixed or non-mutated chloroplasts can be found in different layers of the leaf mesophyll or stem tissue. This will also have an effect on the visual appearance of the plant.

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Hannes Robbertse (Prof)

*Department of Plant Production and Soil Science,
University of Pretoria*

TARIFFS: ADVERTISEMENTS

Tariffs for advertising in the Clivia Society Newsletter:

Smalls (1 to 6 lines):	R25.00	Full Page:	R250.00
Smalls (7 to 10 lines):	R30.00	A5 separate page insert:	R600.00
Quarter page:	R70.00	A4 separate page insert:	R800.00
Half page:	R125.00		

(You will be sent an account from the treasurer for the appropriate amount.)

Pollen storage and use – Joe Dana, California

At a Joburg Clivia Club meeting in February, Elroy van Vuuren presented an interesting talk on pollination in clivia. During discussion we mentioned that the most impressive storage and use of pollen that we knew of was that of Joe Dana of Monrovia, California. Joe has several thousand meticulously catalogued special clivia plants in his garden, and we undertook to ask him for further details. His reply follows - *Connie and James Abel*

Currently I have 308 pollens in storage, including over 100 distinctly different pollens that I brought back from South Africa [in September 2006].

I use a curved set of tweezers with very fine pointed tips and remove the pollen sacks only. I place them into a clear gelatin capsule and write on the top of the capsule of pollen the plant identification number. I use a strip of double stick clear tape on the window sill in the kitchen and let the pollen set for three to four days to completely dry out then put them in my pollen storage box. Will send a photo of my old pollen storage box. I have now graduated to four pollen storage boxes. I have four categories of pollen stored in like boxes. One is for red, orange and bronze. The other is for peach, pastel, pink, salmon and watercolors, the next is for yellows and the last storage box has species, interspecifics and oddball things.

I store all my pollen in the refrigerator and it will keep for a minimum of six years to the best of my information. About two years ago I conducted a poll using the Clivia-enthusiast group and had many replies. One was from Jaco Trutter who told me six years and another seven years. Pen Henry said she had pollen sit at room temperature for one year. She used the pollen to see if it was still good and it was completely viable after one year at room temperature. Some people freeze their pollen and report it should keep almost indefinitely. At the end of the poll, I decided that the best way to store pollen was in the refrigerator for we have more spare room in the refrigerator. People who freeze their pollen seemed to feel the stress of freezing, defrosting and refreezing pollen has no affect on the viability of pollen from their experiences.



The pollen storage box

PHOTO: JOE DANA

To pollinate the stigmas using gelatin capsules is very easy. I take the little top cap off the gelatin capsule full of pollen and place the bottom in the pollen storage box upright so as not to spill the pollen out and gently place the pollen cap top which always has a dust of pollen inside and gently drop it over the top of the stigma and rotate the cap top a little. It is pollinated in hardly any time at all.

I then take an indelible ink marker and write a little line on the pedicel and then write on the peduncle or scape 1 = 1834 for crossing that individual flower with pollen from plant # 1834. The next pollen I use will have two little lines written with the plant number and so forth. I will sometimes use up to six different pollens on one inflorescence and identify each floret



Crosses recorded on the peduncle

PHOTO: JOE DANA

individually. Record keeping is a pain but when harvest time comes along, I know exactly which floret was crossed with what.

I never use a brush. I fear contamination and it is wasteful. When I was at Norman Weitz's house, I spent one spare afternoon pollinating his Clivia using a brush as he requested and feel contamination of non specific pollen is a serious problem. I never felt that I could guarantee a cross was exactly what it was intended to be. At home I cover the umbel with a plastic bag to keep stray pollen out.

I take my pollen storage boxes with me and work in the yard sometimes all day long with them beside me. I do make an effort to keep the pollen from having the sun cast on them. Never had a problem with sun causing problems with viability of pollen but just fearful it might. Never conducted a test and it might be a good idea to do this.



Joe with his tattoo and Harley, with his lush garden including clivias in the background

CLUBS & INTEREST GROUPS

Free State Clivia Club

Where do we come from and where are we headed?

From an un-ambitious idea of a few clivia friends to a fully-fledged Clivia Club located at the centre of our land.

The idea of a Clivia Club originated with Piet Laubscher and so it was planned to have a few Clivia friends gather and test the need for such a club in Bloemfontein. Our first meeting was in the staff room of Bloemfontain Primary. The interest was so great that it was decided to establish a club. We immediately made contact with the Clivia Society. We were informed that we must operate as an Interest Group of the Northern Clivia Club of Pretoria until such time as the numbers of our membership warranted the status of a Club.

Piet Laubscher was elected the first convenor of the interest group. Interest grew so rapidly that in the course of 2005 we could make application for Club status. Just two years after our first meeting. In that year we held our first Clivia Show. A delegation from Pretoria led by Tino Ferero, Christo Topham and Oom Pat Gore paid visit which helped promote even further interest.

Chris Vlok gave the green light to establish a

Clivia Club, namely the Free State Clivia Club. The Club grew rapidly with members from Welkom, Kimberley and other towns of the Free State. Our first true management was elected. In 2006 membership reached 54. The Gold Fields group functioned as an Interest Group, but decided at the end of 2006 to make application as a fully-fledged Club. Indeed a joyous day, since now we were expanding on two fronts in the Free State.

We are at the start of 2007. We live in the best of two worlds. We can learn from the south as well as the north. We must, however, realize that we have unique circumstances for the growing of clivias.

We must however make use of the advantages that cold winters and hot summers hold for the plants. We must profit from the the research conducted by the University of the Free State under leadership of Prof Johan Spies. That is where we have the advantage which we must tap to its fullest. We must use the opportunity that having the Annual General Meeting for the first time in the heartland of the country to make those from other parts of the country aware of

the progress we have made.

Into the future – we will definitely be touring to see Clivia in their natural state. We must let our interest in one of the most beautiful of the country grow. WQe must never neglect our new members, they remain the point of growth of the Club. Thanks to every member for their

special contribution. Without your enthusiasm we could not prosper.

Congratulations to Prof Johan Spies on his election as Chair of the Clivia Society.

A good year to all our members!

Hennie van der Mescht

[Original report in Afrikaans – Ed]

KiwiClivia

New Zealand Clivia Club Inc.



Dear Clivia Friends,

In recent years we Kiwi's have enjoyed hospitality at sym-posiums in California and conferences in South Africa, made some great friends and seen some wonderful clivia along the way. Many we met expressed the desire to visit clivia and growers in our part of the world, at the same time renewing old friendships and making new. KiwiClivia 2008 will provide an opportunity to do just that.

A major strength of clivia growing in New Zealand is the number of extensive clivia plantings located in different parts of the scenic North Island.

KiwiClivia 2008 will be a group gathering of clivia enthusiasts from around the world, structured around the Spring 2008 Auckland Clivia Show, organized group visits to growers and plantations in the Auckland area, and a group tour of plantations and gardens further afield, simultaneously taking in some of the New Zealand North Island's most beautiful scenery and unique features. NINE FUN DAYS IN ALL.

A provisional itinerary for October 2008:

Saturday 4th	Clivia Show, Auckland Botanic Gardens, and Welcoming Dinner.
Sunday 5th	Dr Keith Hammett's Plantation - Clivia Ramble and Workshop.
Monday 6th	Tour of other Auckland growers & plantations. (David Brundell; Terry Hatch, etc)
Tuesday 7th	Paeroa Ramble (Rex & Dee Williams) and Tauranga clivia function
Wednesday 8th	Rotorua Thermal Fun Day & Rhododendron Gardens
Thursday 9th	Scenic drive to New Plymouth
Friday 10th	Pukekura Park, Mount Taranaki National Park, Pukeiti Gardens
Saturday 11th	Clivia Show and Ramble at Tony Barnes' Ngamamaku Gardens
Sunday 12th	Return to Auckland & closing Dinner.

From there visitors may want to explore other parts of our beautiful country at their leisure.

Its early days and more information along with estimates of costs will become available in due course. At this stage please let us know if you are interested so we can gain an idea of the numbers. Diana Holt will be the convener and enquires should be addressed to KiwiClivia2008@xtra.co.nz. Thereafter we will keep you personally advised. Please note that we have discontinued our website, so can only respond to you via our email address.

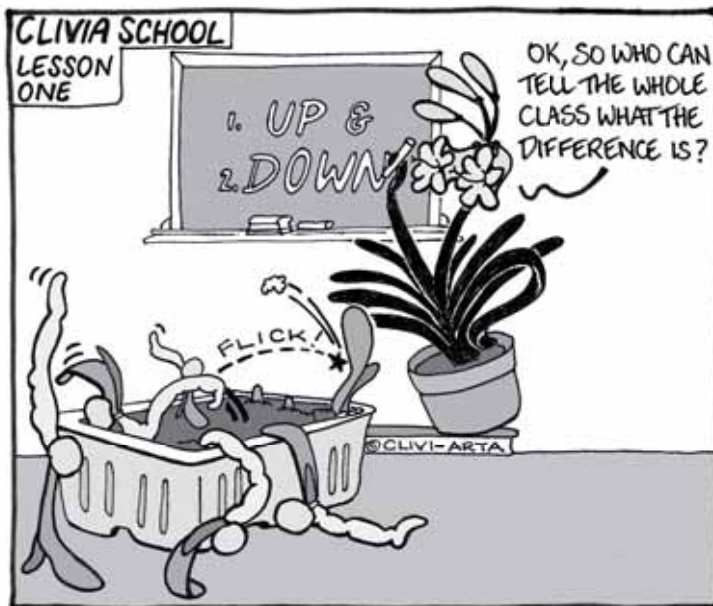
Australia: The New Zealand *C. miniata* season is a week or two later than the East Coast of Australia and some may consider stopping over in Sydney, Melbourne or Brisbane beforehand. The Toowoomba Garden Festival, including the displays by the Toowoomba Clivia Society, will be in the last week of September (Toowoomba is just inland from Brisbane). We have no information on any events or timings, so maybe clubs in Australia will advise you on what may be on offer and give contact details at a later stage.

We are really looking forward to seeing you in October 2008.

Chairman: Ian Baldick; Secretary: Alick McLeman

CLIVI-ARTA

Helen Sanders



ADVERTISEMENTS

FROM THE CLIVIA SOCIETY

Overseas members can order back volumes of 15 of the Yearbooks and 15 volumes of the Newsletters (since 1992) via the Society. South African members should approach their local branches. We must point out that it is difficult to quote a fixed price without knowing the method of payment and delivery. We suggest you contact Bossie de Kock (the treasurer) via e-mail at: bossiedekock@absamail.co.za or by fax at +27 12 804 8892 and list the items you are interested in as well as the name of the country in which you reside. Bossie would then be in a position to suggest the most economical option. Australian, UK, New Zealand and USA members are reminded that they can order via Ken Smith, Dr Hamish Sloan, Di Smith and James Black respectively – see inner back pages for contact details. Also note that further discounts can be negotiated with Bossie for orders exceeding 10 of a specific item. The items listed in the table are available.

Item	Approximate price (US \$)*
Yearbook 8	15
Yearbook 7	15
Yearbook 6	15
Yearbook 5	out of stock
Yearbook 4	10
Yearbook 3	10
Yearbook 2	10
Yearbook 1	out of stock
Cultivation of Clivias	15
Newsletter after 2002 per number	1,5
Volumes 1(1992) to 11 (2002) of newsletters	10 per volume
Set of volumes 1 to 10	available on request

*Including postage and banking charges if paid by credit card.
Contact Bossie de Kock for quotation re payments made by cheque.

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