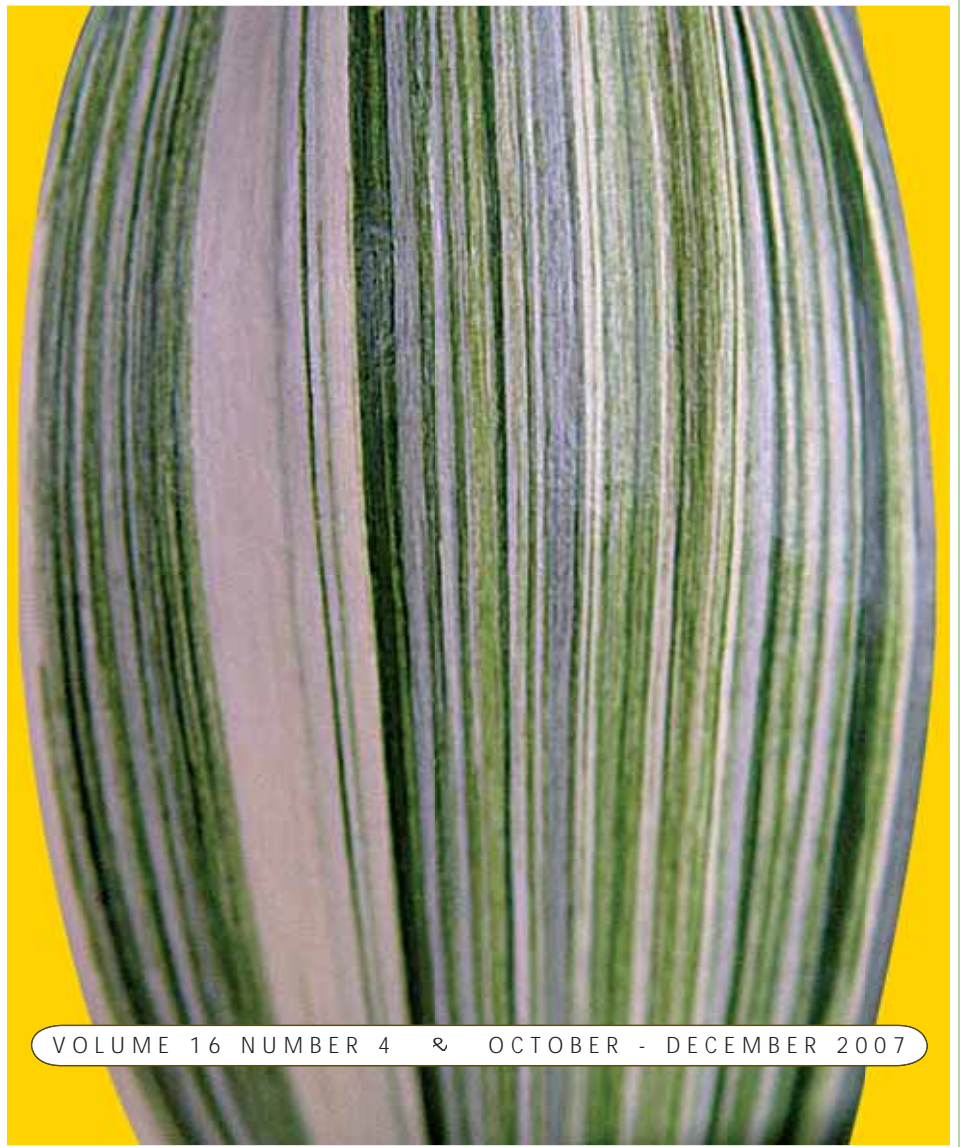


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# CLIVIA NEWS

~ QUARTERLY NEWSLETTER OF THE CLIVIA SOCIETY ~



VOLUME 16 NUMBER 4 ~ OCTOBER - DECEMBER 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 activities for the protection and conservation of the genus *Clivia* in its natural habitat, thereby advance the protection of the natural habitats and naturally occurring populations of the genus *Clivia* in accordance with the laws and practices of conservation
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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✧ Free State	Hennie van der Mescht
✧ Garden Route	Piet Theron
✧ Joburg	Glynn Middlewick and Koos Geldenhuys
✧ KwaZulu-Natal	Sean Chubb and Liz Boyd
✧ New Zealand	Tony Barnes
✧ Northern	Lena van der Merwe, Peter Lambert and Bossie de Kock
✧ Northern Free State	Louis Chadinha

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The Clivia Society Newsletter started as a black on white news-sheet 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 first 4 years, using the publication month in the volume.

The frequency was fixed on four annually with Vol. 5 No 1 of March 1996.

The date changed to the southern hemisphere seasons with Vol. 8 No 1 of Autumn 1999. The first three used yellow paper as cover. The name changed to 'CLIVIA CLUB NEWSLETTER' with Vol. 9 No 1 Autumn 2000 with full colour photos on the cover pages. Another name change to 'CLIVIA SOCIETY NEWSLETTER' came with Vol. 10 No 4 Summer 2000, and in 2005 reverted to a quarterly number.

CLIVIA NEWS is the continuation of this series.

## EDITORIAL

2007 ... what a year!

And getting this issue of Clivia News out has just been part of it.

Where the Clubs and Interest Groups have acceded to my request for a report on the year's activities I've been able to place their copy. To all of you who have responded – many thanks.

Thanks too to John van der Linde who is always willing to help in a hurry, the Abels who keep me in the loop of information, and Lena van der Merwe who plays policeman. Chris Vlok and Johan Spies help make sure that content is accurate and errors and typos kept to a minimum. My thanks to you as well. Fréda van Wyk and Annetjie Esterhuizen of CPD Print – while I know getting the newsletter type set and printed is your business, the job is done professionally and with a smile – many thanks!

I've ranged across publications and postings and have given most of this issue to Breeders' and Growers' Hints.

To our very silent readership – we wish you all well for this festive season. If you are traveling – God's speed, if just relaxing at home – may you enter 2008 rested and refreshed. To our Christian readers – a Blessed Christmas full of the riches the occasion celebrates.

To you all – may 2008 bring its own rewards, and may that VERY special Clivia bloom for you for the first time! &

*Roger Fisher – Editor*



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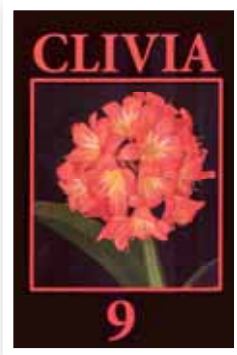
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## CLIVIA SOCIETY MATTERS

### Clivia 9

Every year raises the question "Is there really anything more to be said about Clivia to warrant or fill another Yearbook?"

Well obviously there is since Clivia 9 is on the shelves and ranges across topics related to the genus Clivia – from Carl Linnaeus, whose 300th birth year was celebrated this year and is considered the Father of Botany, having devised the system for naming the natural order – to 'Charl's Green the coolest Clivia you've ever seen' which sold for a cool R32 000 at the Clivia auction last year.



### Clivia 10

The Yearbook deals with lengthier, weightier and more authoritative articles than the newsletter (Clivia News). If you have anything to contribute please make yourselves known! Clubs are requested to have those who photographed winners at the various shows to get these to Claude Felbert as soon as possible! Members wishing to submit photographs for the Clivia Photography competition must also submit photographs to Claude Felbert as soon as possible on CD posted to 12 Boulders Road Lakeside 7945 - e-mail [accolade@ibox.co.za](mailto:accolade@ibox.co.za) &

## STORIES BEHIND THE COVERS

### Five Colour Orchid – Photo Hein Grebe

Mr. Zhu Jifu is one of China's most famous Clivia breeders, Deputy President of the China Clivia Association (with more than 24 000 members) and Executive Chairman of the Shenyang Clivia Research Institute. He has become renowned for his breeding of variegated Darumas, by line breeding selected long-leaved variegated plants with a 140 mm green (i.e. non-variegated) broad-leaved Japanese Daruma which he bought years ago. The selected off-spring of these plants have been line-bred to obtain high quality variegated Darumas. Some of his 2nd and 3rd generation variegated plants have leaves wider than the original pollen parent.

### Painted Leaf Strains – Photos – Hein Grebe

Hein Grebe plans to create a new 'type' of Clivia, which he has named the Painted Leaf Strain, bred from plants in his collection which have leaves resembling paintings. One characteristic of these plants is that no single leaf has the same patterning. Each plant is a living work of art - every time a new leaf is formed, it is a new painting created by Nature. This 'painting' also changes as the leaf matures. He sees each plant as a book and the leaves as the pages of that book. One then can view Nature's paintings by "paging" or lifting up the leaves to inspect the pattern and colour combinations. &





## HABITAT CLIVIA

### Caulescens Habitat Tour – 2007

On Saturday, 29 September at 07.00 some 42 very eager Clivia enthusiasts boarded the luxury bus for the start of the Caulescens Habitat Tour to Limpopo and Mpumalanga Provinces.

After a pleasant few hours travelling from Pretoria we arrived at Graskop to collect packed lunches and then departed for the Pinnacle and God's Window. At the Pinnacle, those brave and fit enough swarmed down to the bottom of the valley in search of *C. caulescens*, while the rest of us were happy to wander around taking photographs of *C. caulescens* growing in the most impossible situations from rocky crags and crevices. Then we went on to God's Window and quite a stiff climb to the rain forest where there was a surprising amount of *C. caulescens* in full flower. Unfortunately, due to very heavy mist, we missed out on the majestic panoramic vistas, but the fact that we actually saw what we had gone there to see more than made up for missing out on the views.



*Gods Window Enthusiasts.*

After a very pleasant dinner at a restaurant and comfortable night spent at the Log Cabins in Graskop, it was breakfast bright and early and then we were on our way to Mariepskop. The weather had worsened and the mist was even thicker than the day before. We made a short stop at the office complex to pick up our guide and then the bus managed, in very wet and misty conditions to get us to the top of Mariepskop. What a thrill to see so many *C. caulescens* thriving in a protected environment. This was thoroughly enjoyed by all although it was definitely not ideal conditions for the photo fanatics! We then had enough time to briefly visit the Nelspruit Botanic Gardens.

Sunday night was spent at a school hostel in Barberton. Ian Coates from the UK gave us a very interesting talk and advice on providing different



*Fire damage at Pinnacle.*



*Caul epiphytic Marieps in drizzle.*

aspects of light, shade, background and colour for photographing Clivia. We were then given a very nice dinner after which a number of rugby enthusiasts were fortunate enough to be taken into town by the bus to a pub to watch the rugby on a wide screen while the rest of us tried to dry out jackets and shoes with hairdryers for the next day.

Much to our dismay, the trip to Bearded Man on Monday had to be cancelled because the roads were too wet and slippery even for the forestry trucks to negotiate. Instead it was agreed to travel back to Pretoria via the Kruger National Park which, in some small measure, made up for our loss. In the few hours through the park we were fortunate enough to have 4

different sightings of rhino, also saw crocodiles, a mangy lion, numerous buffalo, giraffe, duiker, klipspringer, kudu, impala, zebra, wildebeest, warthog and one lonely elephant. The smaller antelope were easily spotted as vast areas of grassland in the park had burned away.

Once out of the Park, another brief stop at Hall's produce shop in Nelspruit for lunch and other purchases. A number of members managed to buy some very nice variegated Clivia from a nearby nursery. Mark Penter brought a bakkie load of beautiful Clivia Tipperary/Cameron peach plants for sale and then we were on our way back to Pretoria.

I must mention that I was amazed at the extent of the recent fires which burned their way through vast amounts of forest and lands over the whole area. One hears about these fires in the cities, but one doesn't realise how devastating this can be until one sees it.

I am sure I speak for all FSCC members who were on the tour in thanking Connie and James for the enormous amount of their time and effort which they must have put into making this a thoroughly enjoyable and very well organised tour for all concerned. I enjoyed meeting all the other "Clivia Crazyies", making new friends and the wonderful camaraderie of the whole tour. I will definitely be first in line for the next one!



Thank you Connie and James for a job more than well done and for looking after us all so well. &

*Pearl Snowdowne*

*Free State Clivia Club*

*Caulescens lithophytic  
Gods Window.*

## NEWS &amp; CORRESPONDENCE

PO Box 134, Pambula NSW 2549  
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 20th November 07

An open letter to:

*The Minster of Environmental Affairs and  
 Tourism, Republic of South Africa*

*Dear Mr M. Van Schalkwyk*

There have been recent media releases in Australia describing research findings and policy decisions about endangered flora and fauna in Australia and New Zealand. Approximately 20% of all species in both countries are currently affected - largely by loss of habitat from human activity, and by climate change.

In both countries, the amount of 'remedial' money available is far less than that needed to 'rescue' all species. As with wounded soldiers in battle, the main effort is to be directed, not necessarily to those species 'in extremis', but rather where recovery is most likely with the least expenditure of time and money. It follows that best results occur when there is decisive early intervention before endangered status is reached. As well, there are important cultural considerations. In New Zealand, for example, the survival of the nocturnal kiwi is of far more cultural significance than that of numbers of less threatened but relatively endangered unknown bird species. I say this in introduction to enquiring about the status of the Clivia genus in South Africa.

Is the Clivia currently regarded as endangered, particularly because it seems that climate change will accelerate the shrinkage of forests on whose shelter the Clivia depends? Does the international status of the Clivia give it a similar cultural significance to the New Zealand kiwi? If so, what resources, both in forms of expertise and money, and both from government and private sources, can now be mobilized?

*Sincerely,*

*David Bearlir,*

*Burwood Clivia Nursery  
 Australia*

P.S. The latest reports of the effects of global warming which have come in as this letter is being written show that the figure of 20% of species being endangered is most conservative.

[The conservation status of the genus Clivia under the new South African environmental legislation was explained by Gerhard Faber in Clivia News Vol 16 No 2.

Recent fires have destroyed expanses of indigenous forest in the Mpumalanga Province. It is predicted that, with global warming, the range of temperature swings will increase and be accompanied by intensified alternate periods of drought and flooding, and consequently episodes of such fires will increase, thereby further destroying and reducing the natural habitat of the genus Clivia – Ed]. &

17 Greenwattle Street  
 Toowoomba 4350  
 Queensland  
 Australia  
 29-11-2007

*Dear Mr Fisher*

Last September I ran a Clivia Show at the Wilson Shopping Centre to aid the Toowoomba Hospice. The total amount raised was Twenty One Thousand Five Hundred dollars.

To all who contributed in any way to this amount – on behalf of the Hospice I wish to say 'Thank you'.

We had many visitors including Mr Louis Swanepoel from South Africa. I wish to thank him for his kind remarks and for the time he spent viewing my collection at home.

Once again thank you to everyone who contributed in any way. &

*Yours faithfully*

*Jeanne Mouton.*



## GROWERS & BREEDERS NOTES

### Selection and classification of Clivia (Boslelie) seeds and seedlings

#### 1. Selection and classification of seeds of all the Clivia species

After having harvested the seeds of each plant, cleaned them and stored in containers, the fresh seeds are spread open on white paper toweling to be checked and divided into three separate groups.

- 1.1 Large seeds with a well developed radicle tip or growth point clearly visible, the surface of the seed free of any brown spots are graded as first class. These precious seeds are normally not for sale and wise grower will use these for their own purposes.
- 1.2 Large seeds with poorer developed radicle tips, free of small brown spots are classed as second grade.
- 1.3 All small seeds and seeds with brown spots are graded as third grade.

Highly influential Chinese growers germinate only first grade seeds. Second grade seeds are normally sold or cultivated to be sold as quality market plants. Third grade seeds are destroyed and not cultivated at all. A quality pod plant seldom yields third grade seed.

Seeds correctly selected as first grade normally have a 100 % germination rate. Correctly selected second grade should yield a 70 %+ germination rate, but few out live the seedling selection phase.

#### 2. Selection and grading of seedlings in various stages

*C. caulescens* and all the yellow varieties of Clivia show no pigment on the root section between the cotyledon and first leaf (only shades of colour ranging through the absence of green to very dark green), and their selection has to be based on other criteria.

- 2.1 The first selection is made as soon as the first leaf appears. The pigment on the root section between the cotyledon and the first leaf are checked. Only seedlings with very dark pigmentation are selected. Seedlings with poor pigmentation are discarded and moved to those cultivated for sale purposes

A well-known member of the Northern Clivia Club is confident that with this selection method done over a long period of time success was obtained in cultivating plants with quality flowers and colour.

According to him:

- A seedling selected as white stem with no pigment results in a very light cream coloured flower.
- A very light green stem indicates a darker coloured yellow flower.
- A deep green may be peach coloured or a yellow with a green throat.
- A deep red may result in a good orange flower.
- A brown stem indicates on an orange with a green throat flower.
- A deep purple-pink stem indicates a pastel to pink flower.

Our research of the Clivia will benefit immensely if photos are taken and notes kept on these observations by our members.

- 2.1 The second selection is done when the second leaf has developed. Only the broadest leafed seedlings are kept for growing of broad-leaf type of plants.
- 2.2 This type of selection is continued and repeated up to the fifth leaf of the plant. At the selection of the fifth leaf stage, it is wise to select only those plants with a leaf width of 40 mm or more. Do not apply these guidelines on variegated plants, as their leaves are usually narrower than the green-leafed plants. The variegation affects the width of the leaf.

The Chinese believe, and rightly so, that if the plant has a fifth leaf of 50 mm width or more it will be a champion plant having, when mature, a broad leaf of 140 mm or more by the time it flowers for the fifth time.

The disappointment of some of those members who are disillusioned with their seedlings correlates directly with the poor quality seed with which they began.

[Translated from the Afrikaans – Ed.] &

Sakkie Nel

## Foolproof method to grow Chinese and other Clivia seeds

First clean the seeds. Then follow the next steps:

1. Wash seeds gently in one of the better liquid dish washing soaps. This is to remove the dirt and loose skins on the seed.
2. Immediately afterwards rinse with clean water to remove the residual soap. (The above hint comes from Mr Lötter, senior member of the Cape Clivia Club)
3. Make a mix of water that contains 1% Sporekill and Bravo (two tablespoonsful per liter of water, or until it is white) and soak the seeds for 24 hours in the water/ Sporekill/ Bravo mix. Be careful not to add too much Sporekill as it will reduce the growth rate of the seedlings. One drop per liter of water is enough. This will make sure that all the fungal diseases are killed (This hint is from Mick Dower - Cape Clivia Club).



*Close up of seedlings.*

4. While the seeds are soaking in the mix for 24 hours, soak a peat block in warm water mixed with Bravo and Sporekill (as above). Place the damp peat in a clean or new plastic seedling boxes and cover it with clean plastic bags. If condensate forms on the inside of the plastic bag open it so that excess water can evaporate. (This hint is from Ben Marais, Cape Clivia Club. I think by now you should catch

another hint and that is all the clever guys are from the Cape Clivia Club!)

5. When there is no more condensate on the inside of the plastic bag, place the seeds on top of the peat and place in a warm (22 to 25 degrees Celcius) without direct sunlight but enough light. Do not open the bag every day to inspect the seeds. You should be able to inspect them through the plastic. Leave the seeds until they start to form leaves, then transplant them.

This method has been shared with a friend in Cape Town whose wife comes from Chanchun who wished to grow seed for the first time. His wife's father knows the president of the Chanchun Clivia Club and he managed to get very good seed from him. When I visited him a few weeks ago and asked to see the seeds, I observed that they had all germinated successfully. So with this method even the most inexperienced person can be successful.

This method for germination is not good for *C. mirabilis* seeds. Instead use a grit or fine stone mixed with leaf litter and place the *C. mirabilis* seeds on top of the mix and water regularly so that there is a little bit of damp. The seeds also need a cooler environment to germinate if you want to simulate nature, where, as soon as the seeds ripen the winter rains start to fall and the temperature drops to between 15 to 20 degrees Celcius. &

*Hein Grebe*



*Seeds covered with plastic bag.*

## Growing and Propagating *Clivia mirabilis*

The first *Clivia mirabilis* collected by Johannes Africa, a Senior Ranger in Oorlogskloof Nature Reserve, was sent for identification to Dr John Rourke, Curator of the Compton Herbarium at the National Botanical Institute, Kirstenbosch. This alerted Dr Rourke to this new species. For the purpose of describing and researching this *Clivia* a permit to collect a limited number of plants and seed was granted by the Department of Nature Conservation of the Northern Cape to Dr Rourke. The tremendous interest shown in this unexpected discovery in the Northern Cape has raised concern for the safety of the population of *C. mirabilis* and as a result access to the reserve is restricted.

The first impression I had of *Clivia mirabilis*, the latest addition to the genus *Clivia*, was its resemblance to *Clivia nobilis*. The thick rigid upright leaves resemble a *C. nobilis* growing in an exposed situation. However, the leaf has a pale green stripe running down the mid-rib. The seed is small and also similar in size to *C. nobilis*. *C. mirabilis* flowers in November and the berries are ready for harvesting four months later in March. It is unusual for *Clivia* seed to ripen so rapidly, the four other species all taking approximately seven to eight months before their berries are ready for harvesting.

The known population of *C. mirabilis* occurs in the Oorlogskloof Nature Reserve where they are protected. This reserve is situated in the Bokkeveld Mountains of the Northern Cape where the climate is Mediterranean with winter rainfall of only about 415mm per annum. Winter temperatures can fall to nearly 0°C. In summer the temperatures can rise to over 40°C and it is very dry but coastal mists relieve these conditions at times.

They have extensive thick (20mm) roots that penetrate the rocky scree and anchor the plant securely making it very difficult to remove a plant. More importantly the roots

serve as a storage organ providing moisture and nutrients to the plant during the dry summer months, supplemented by moisture collected by the leaves from the sea mist. They grow in partial shade and also in full sun without any sign of sun damage to their leaves - some leaf die-back was noted but this had been caused by stress arising from lack of moisture. Leaf litter provides nutrients.

As with all *Clivia* species, *C. mirabilis* can be grown in a range of media from simply coarse sand to a mixture of well-matured compost, coarse sand and milled bark.

In their natural habitat their roots live in well-aerated rocky scree with leaf-mould, providing adequate oxygen, moisture and nutrient for the plants. To provide a similar growing medium I chose instead of coarse sand to use mainly seven parts of milled composted pine bark mixed with three parts of milled composted pine needles and one part organic fertilizer (Neutrolog Bounce Back™).

Initially the plants were kept fairly dry taking into account that they are accustomed to a dry environment particularly in the summer. Under these conditions no growth occurred until watering was increased and the growing medium kept fairly moist. The plants responded immediately and have since produced steady growth, apparently faster than in the habitat and certainly a lot faster than *C. nobilis*. Seedlings

grown in a coarse sand medium have not responded as well.

As mentioned earlier the seed of *C. mirabilis* is ready for sowing in March. Two methods of sowing were used. One method was to remove the seed from the berry and wash in water that had a liquid soap added. This acts as a fungicide and also helps to remove the membrane that covers the seed. Finally the seed was washed in clean water and placed in a clean transparent



One-year old seedling grown from seed in composted medium.

plastic bag, sealed and kept in a warm place. Germination occurred in three to four weeks. As the seeds germinated they were removed from the plastic bag and planted in 15 cm pots containing a medium similar to that used for the larger plants. The other method of sowing the seed is the conventional way of placing cleaned seed in the growing medium at a depth of one and a half times the size of the seed and keeping it moist. The root develops first followed by a narrow leaf. This method turned out to be just as effective as using the sealed plastic bag.

The plants of *C. mirabilis* have been grown in a tunnel with a wet wall at the one end and an extractor fan at the other. The young seedlings have been placed close to the wet wall that keeps them perpetually moist but this does not appear to have a negative effect on the seedlings. The tunnel is shaded but this also does not appear to have an adverse effect on the plants. If grown in a conventional Clivia shade house I imagine *C. mirabilis* will do just as well although the growth rate will probably be slower. The young seedlings produce long thin leaves but as the plants develop each new leaf is broader than the previous one.

Although *C. mirabilis* is not the most spectacular species within the genus *Clivia* it offers many opportunities to those interested in breeding new cultivars by making use of the unusual characteristics the new species offers - for example, the red coloured pedicels and ovaries, sun hardiness, tolerance of hot summers, cold winters, flowering in November and a faster growth rate than *C. nobilis*.

In conclusion it appears that *C. mirabilis*, although originating from an arid winter rainfall region, responds well to the same growing methods used for the four summer rainfall species. It will be interesting to observe when they will flower and produce suckers.

## FOOTNOTE

I have been growing *C. mirabilis* seedlings for a number of years and there are a number of aspects regarding their treatment that I would like to mention. The seedlings tend to be prone to fungal infection so it is important to have good drainage. I grew the young seedlings in milled pine bark and in time this breaks down, drainage deteriorates and the roots tend to rot which is not unlike what would happen with all of the other species under similar circumstances.

Regular re-potting into fresh growing medium is advisable and care must be taken not to over water. I am growing these plants in a tunnel and they are watered automatically once a week for 5 minutes. Two years ago I changed the growing medium to a 12mm bark which is a great deal coarser than what I was using previously. I find that the root development is greatly improved in this mix.

I am now also growing *C. mirabilis* in a mix of equal parts course sand and the 12 mm bark as an experiment with agricultural lime added. It is too early to make any recommendations but the plants have not reacted negatively to this. The key seems to be drainage and watering but *C. mirabilis* is certainly not as easy to grow as the other species.

*John Winter*

[This article was published in the NZ CLIVIA CLUB INC. NEWZLETTER Volume 5.4 Spring 2007. The background for it being published is that it has taken us in New Zealand the best part of 2 years and more than \$1000 to get *mirabilis* approved by the New Zealand Environmental Risk Management Authority (ERMA) for importation into New Zealand. And so for the first time we will be able to match the rest of the world and bring *Clivia mirabilis* seed into Kiwiland. Alick McLeman] &

## 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.)

## Potyvirus infection in Clivias

I have for some time been investigating the viral infections of a number of my Clivia. All those infected with potyvirus<sup>1</sup> have been destroyed now. I have had sixteen plants tested at the local Australian government virology laboratory to try and locate the source of infection. This test is only for poty virus.

There are only a few plants involved so I will destroy all those showing signs of potyvirus infection and then watch to see if the other plants get infected. As luck has it this group is well away from the other Clivia. I will also be

removing all non Clivia plants and wait a few years and see if any Clivia show potyvirus over the next few years. These plants are all growing close to each other.

The virologist said potyvirus is only transmitted by aphids and not by thrips and other bugs. They have done DNA sequencing and decided that it is the "narcissus late season yellow" virus. It is also not very likely to be spread by sap on hands when removing leaves but removing spent leaves and flower stalks should still be done with caution especially if there are some

Plant	Species	Appearance	Diagnosis
1	<i>Lilium ligniform</i> (Xmas lily)	streaks	potyvirus
2	<i>Clivia caulescens</i>	healthy	nil
3	<i>Clivia gardenii</i>	streaks	potyvirus
4	<i>Haemanthus albiflos</i> (White blood lily)	blotchy	nil
5	<i>Clivia miniata</i> 'Belgium hybrid'	streaks	potyvirus
6	<i>Clivia miniata</i> 'Belgium hybrid'	healthy	nil
7	<i>Clivia miniata</i> 'Belgium hybrid'	streaks	potyvirus
8	<i>Clivia miniata</i> yellow	streaks	potyvirus
9	<i>Clivia miniata</i> yellow	healthy	nil
10	<i>Clivia x cyrtanthiflora</i>	healthy	nil
11	<i>Dichorisandra thyrsiflora</i> (Blue ginger)	blotchy	nil
12	<i>Crinum pedunculatum</i>	healthy	nil
13	<i>Clivia miniata</i> species	healthy	nil
14	<i>Narcissus</i> (mini daffodil)	blotchy	potyvirus
15	<i>Clivia x cyrtanthiflora</i> variegated	long stripes	nil
16	<i>Clivia x cyrtanthiflora</i> variegated	thin stripes	nil

<sup>1</sup>Potyvirus are the major genus in the Potyviridae family and infect a broad range of host plants, both monocots and dicot [<http://microbewiki.kenyon.edu/index.php/Potyvirus>]







suspect plants around, and these are best destroyed. Potyvirus is not a virus like tobacco mosaic which is very easy to spread just by contact. I have been told that it is not supposed to be seed borne. All my Clivia were clean when I first got them so I think it came from the Xmas lily or the daffodils in my garden.

In conclusion I make the following observations:

- the blotchy symptom in lily plants (including Clivia) is potyvirus.
- because the plants with potyvirus have either white or yellow flowers they do not show colour-break.
- no colour-break in the orange Belgium Hybrids or the yellow Clivia was observed.
- if potyvirus were seed born the seedlings would be very blotchy and sick and so easily detected in seedlings, according to the virologist.



I have not grown any Belgium Hybrids from these plants so I have not yet detected this effect. I did grow Clivia gardenii from seed and some may have come off the infected plant but the seedlings show no sign of blotchiness. I will save some seed from the infected plants in the virology collection and see if the seedlings have streaks. This I can do at my place of work which is away from any infected Clivia. I will be keeping a very close eye on these. A search for "potyvirus Clivia" on the web hits some sites. One is from the Society Chat Line. I will do further research. &

*Ken Adcock*

*Plant Pathology: Agriculture Western Australia and Food*

*kadcock@agric.wa.gov.au*

## PRIVATE ADVERTISEMENT

### CLIVIAN PLANT SALE - NYLSTROOM/MODIMOLLE

Due to space requirement we have decided to offer the contents of my Nursery House 4 at CUT PRICE! The plants originated with many Clivia gurus such as Gert Esterhuizen, Christo Letter, P Nel, Bertie Gillaume, Dave van der Berg, Wessel Lotter, the late Fanie van der Westhuizen & Ammie Grobler.

CONTENTS: 90 Broadleaf plants (4-8 years old), 50 Mature large plants (4-8 years old), 320 assorted orange hybrids, 5 large yellow plants (7 - 10 yrs), 15 yellows (4-6 yrs) 5 variegated young plants, 10 Intespecific plants (4-6 yrs) 3 *C. gardenia*, 2 *C. caulescens*.  
Total = 500 plants for only R22 000.00.

Free delivery within 200 kilometer from Nylstroom can be arranged.

The plants can be viewed from 23 rd of November onwards. Please make an appointment,  
Ans Jacobs: Tel. 014 717 3674 or 082 372 0765

## CLUBS AND GROUPS ANNUAL HIGHLIGHTS

### Eastern Province Clivia Club 2007 Show Report

Show time is that time of the year when the stress levels and anticipation of the growers are high. Will they have plants ready to exhibit or not. Must the plants be put in a cool, dark area because the flowers are opening too fast or should they be put in a light, warm area to help them open faster? If they do have plants, which ones do they enter and in which category. Do they enter the plant for the leaves, berries or flowers? I am sure that many of you recognise the symptoms or have experienced the stress and anticipation.

Many of our growers encountered the same problems as those of the two previous years. It seems that global warming is having an affect on the plants. Some growers reported that their plants were opening too soon, especially the yellows and pastels, while others indicated that their plants will only be in flower after the show.

Friday arrived warm and slightly windy. The preparations in the hall, arranging sales tables and stalls all went fairly smoothly. At 15:00 exhibitors start entering their plants and committee members were kept busy benching plants. In many cases growers entered less plants than what they have originally indicated due to the weather conditions during the past year. There were a couple of classes where no plants were entered. A new category was brought in this year namely flower arrangements. It was a pity that not many people participated in this category but we hope that it will grow in future. One of the problems experienced with the arrangements was the transport of the arrangements because people had to do the arrangement at home. Twenty three exhibitors took part and a total of 198 plants of high quality were entered for the show.

Although the EPCC show again, as in the previous years, had to compete with other major events in the region the total numbers of visitors did increase. In 2006 we had 1178 visitors over three days while we had 2000 visitors over the two days. Recruitment went well with 21 new members joining the club during our annual

show. The literature and tea garden was once again a big attraction. Many visitors/members were also hoping that there would be colour charts for sale. Another positive for the show was an interview with the Chairman on the Saturday by Fonnie Du Plooy from "Radio Sonder Grense" that was broadcasted on Tuesday 2 October.

The display tables were arranged in such a way that it gave easy access for viewing and also catered for disabled people to move around easily. The display tables looked, as usual, different from the previous years which are normally a challenge for the show committee. Many compliments were received from various visitors. Our exhibitors came from as far as East London, Grahamstown and Sedgefield. It was also nice to welcome some of the Border Interest Group members to the EPCC show.

The main judge, Koos Geldenhuys, held a workshop on judging on the Saturday morning during the show that was well attended by local judges, learner judges and John Roderick from Border. The judges reported that they have learned a lot and thought that it was a good idea.

Visitors to the show were once again greeted by a beautiful display of Clivias in the foyer done by one of our members, Mark Joubert. On entering the hall, visitors were greeted by the table, consisting of the following winning plants:

- Best on show – Peach with two umbels owned by Charl Malan.
- 1st Runner-up to Best on Show – Orange narrow tepal owned by Charl Coetzee.
- 2nd Runner-up to Best on Show – Apricot with one umbel owned by Neil Ellis.
- Beginners Class - Best on Show – Green centre owned by Gideon De Kock.
- Beginners Class – Runner-up to Best on Show – Seedling flowering 1st time – orange owned by Gideon De Kock.

This was the third year in a row that both classes in the the beginner categories were won by one person. It shows that our beginners have great potential but need encouragement to enter their plants.

Once again a well attended auction was held on the Saturday night before the prize giving. The number of stall holders has also increased this year and good quality seed/seedlings/plants and other Clivia related products were for sale. Members are showing so much enthusiasm that space is starting to become a problem. The club will have to start looking for a bigger venue soon if interest keeps growing.

The various sponsorships received are very much appreciated as it helped to curb the cost associated with putting up a good show. I would like to thank each and every sponsor for their contribution. I would also like to thank those club members who made contribution

or donations towards the tea garden, the committee members as well as those members who assisted before, during and after the show especially with the cleaning up. Without committed people like you the EP Clivia Club Annual Show would not be such a tremendous success.

Lastly, I would like to thank Koos Geldenhuis (main judge) and Rita Van Rooyen, who came all the way from Pretoria, who were responsible for the judging together with our local judge, Mark Joubert. &

*André Calitz*

*Show Chairman: Eastern Province Clivia Club*

## Joburg Clivia Club 2007 Show Report

The Joburg Clivia Club held a very successful show in September this year. The number of members attending the show as well as the number of display entries were larger than 2006.

This is the fourth year in a row that we have held the show at the same venue and this has certainly contributed to the good turnout by the public to view the show.

The annual show is the highlight of the club calendar year. As September is a busy flowering time for all clivia enthusiasts, one doesn't have time to view fellow enthusiasts' collections, so the show bench provides the ideal opportunity for members to view fellow members' clivia plants.

The display plants show us also the trends in clivia breeding, from both the leaf form and

shape point of view as well as from the most popular colours on display.

The display tables were complemented by the large selection of plants for sale from the stall holders. Buyers were able to purchase rarer colours as well as spectacular broad leaf plants.

The large variation of clivia plants and flowers available surely contributed to the application of a good number of new members to the Joburg Clivia Club.

The success of the show is dependent on the willing members helping with both the organisation and running of the show. What we do look forward to is the challenge of making 2008 a bigger and better show and hopefully Mother Nature plays along! &

*Glynn Middlewick*



### Clivia2006 Conference DVD's now available

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@absmail.co.za



## KZN Clivia Club

*Dear Members*

Our annual *Gardenii* Show was a great success when it came to display of plants, but very disappointing in members and public support with only about 65 people came through the gates. *Gardenii* plants can be just as pretty as *miniata* and many exciting new colours are popping up each year. They are very rewarding bloomers in the dull winter months, especially when planted in clumps in shady areas in the garden and compliment the oranges and yellows of aloes in the sunny areas.

The results of the *Gardenii* show are as follows: Best on Show – Val and Roy Thurston, 1st Runner-up – Val and Roy Thurston, 2nd Runner-up, Liz and Glen Boyd. The winner of Most Points was Gem Wild Flowers, Pieter and Francois van Rooyen and Val and Roy Thurston were runner-up to Most Points. Thank to all who entered plants and for all the help.

We held our Interspecific display at the SANBI Botanical Gardens in August. What a wonderful display of some beautiful and interesting specimens of interspecific crossings. This is a wonderful breeding route to follow as the variety of colours and shapes is endless and very challenging and rewarding.

The soft spring rains have come at last, bringing welcome relief to many dry gardens around the country, and holding off long enough to allow the Clivia Club to hold their September Show and Display and Sales Stand at the Sunday Tribune Garden Show in Pietermaritzburg.

Congratulations to Sean Chubb who won Best on Show and Most Points. John Handman won 1st Runner-up Best on Show, with Liz and Glen Boyd – 1st Runner-up Most Points and 2nd Runner-up Best on Show. Well done to Mike Callaghan who was Best Novice on Show and Tayla Chubb, Best Junior and Sara Chubb, Runner-up.

The sales area did a good trade with a wonderful

supply of really good quality plants for sale to both the members and public. Thank you to all the stand holders who supported our show and helped to swell the coffers.

The KZN Clivia Club had a Display and Sales stand on the Sunday Tribune Garden Show which was a great success and were delighted to win another Gold Certificate. Many members of the public were very impressed with the variety of plants on display and seed, seedlings and plants available on the stand.

To finish off a very successful year we had our Bring and Braai event at the home of Sean and Terri Chubb. To make the day a bit more exciting we asked each member attending to bring along a quality plant. All the plants were given a number as well as the member and the draw put smiling faces on all who won the plant of their dreams.

Our club was greatly shocked to hear about Brenda Nuss's sudden illness whilst her and Etzel were on a well earned 'dream holiday' in America. After spending 2 weeks in an induced coma in intensive care she has made some improvement over the last couple of days. Her recovery will take some time - and all who know her, wish her a speedy recovery and look forward to her return to "sunny" South Africa in the not too distant future.

Talking about "sunny" - here in KZN we have experienced a month of constant rainy, misty, severe thunderstorms and gusty weather, which is causing a rather nasty spotty orange brown virus to appear on the clivia leaves. We wonder whether other members in the summer rainfall areas have experienced a similar problem.

That's all for 2007 folks. The KZN Clivia Club Committee wish all Clivia Society members and enthusiasts a very merry Xmas and a prosperous and healthy New Year. &

*Val Thurston*

*Secretary*

## Lowveld Clivia Interest Group 2007 Report

The year started at a very fast pace and before we knew what had hit us we were in the final planning stages of our Clivia show. The colder and longer than normal winter promised us a good Clivia flowering season for which we are very thankful.

### INFORMATION SESSIONS

Three information sessions were hosted in 2007:

- Dawie Strydom presented a very interesting talk on the breeding of pastels.
- John van der Linde took the Interest Group on a virtual tour of the Clivia mirabilis plants and habitat.
- Hennie Eksteen addressed the Group on the advantages of using Vermi compost (derived from earthworms) in the growing of Clivias.

### 2007 SHOW

Members were concerned that we would not have enough flowering Clivias for the show. We were however pleasantly surprised when eventually 19 growers showed 227 plants. (A record number of entries for the Interest Group!)

According to the NCC Judges (Thanks to Koos Geldenhuys, Ernie Hobbs and Rita Van Rooyen) the quality of the plants on show was very high and the final decision on the winners a difficult one to make. Hilton Atherstone was awarded the best on show and the first runner up in the category "with flowers". Paul Kloeck showed the 2nd runner up in the same category. In the category "plants without flowers" the top position went to Paul Kloeck with Sue Kloeck winning 1st runner up with her first ever and only entry. Attie Le Roux showed the 2nd runner up plant.

A massive effort went into the promotion of the Lowveld Clivia Show. This resulted in the best turnout that we have had since our first show in 2004. However more visitors are needed and we will have to re-plan our promotion efforts in 2008.

- Plants were displayed at our main shopping mall on the Saturday and Sunday leading up to the show. The public was made aware of the beauty and diversity of Clivias and encouraged to attend the show where they would be able to purchase plants to their hearts content. (Thanks to Paul Kloeck for his initiative and bargaining skills in arranging the Mall exhibition at no cost to the Interest Group).

- Three large banners were sponsored by various institutions and four banners were also purchased from Coco Cola. The banners were put up at strategic points in Nelspruit and White River for a period of two weeks before the show. More eye catching posters were also displayed at businesses in and around Nelspruit and White River.
- Clivia seed was donated by Interest Group members. Five seeds were packed per parcel and distributed at primary schools as a marketing exercise.
- Clivia art by schoolchildren and the "Vroue Landbou Unie" [Women's Agricultural Union] was also displayed.

### GENERAL ACTIVITIES: 2007

Every year Clivias surprise us by either flowering too early or too late for the annual show. This year was no exception with many growers complaining that their best flowers had already been spent by 7 September 2007.

An informal Interspecific show was hosted in June 2007. This show promises to grow and become an annual event in the Lowveld with many more entries this year than the previous year. Ian Radmore and Chris de Lange respectively showed the best on show and the runner up plants.

- Johan Schoeman arranged for visits to the Clivia miniata natural habitat sites at Shiyalongubo and Bearded Man.
- Various articles on Clivias were published in the local newspapers to create awareness amongst the public. All information sessions were also advertised in the local media.
- A newsletter was regularly sent out to all members (Thanks to Maria Grové for all her hard work and time spent compiling newsletters).
- The Interest Group is considering applying for full club status. The formation process will be started as soon as possible and hopefully by next year this time we will be known as the Lowveld Clivia Club. Currently we have 59 members.
- We are looking forward to the year end function to be held at Paul and Sue's farm between Nelspruit and White River.

Regards to one and all in the Clivia world. &

*Daan Dekker*

*Chairperson: Lowveld Clivia Interest Group*



## The Northern Clivia Club 2007

The NCC is busy putting the finishing touches to yet another eventful and very exciting year. 2007 was a more relaxed year for the NCC - well at least that is the way it started out. During the latter part of the year and with the weekend of our Annual Show fast approaching, I learned to my great surprise that our preferred venue was no longer available.

Our annual show was once again held at the Overkruin Hoerskool and was a resounding success. Thanks to Christo Topham and his dedicated team who once again rallied together to make the show the success that it was. As usual the flowers and plants that were entered were exquisite. The pastels, peaches, pinks, etc. were awe inspiring and this certainly bodes well for the future. Congratulations to all the winners and especially our overall winner Hylton Atherstone. This year we had a number of persons entering plants for the first time who won prizes.

A special word of congratulations to them and I hope to see them back again next year. Certain aspects of this venue were good, but we still have not found the ultimate venue, or at least a venue that meets most of our expectations. The major task of Management and the Show Committee for next year is to find such a venue and as early as possible in 2008. We will certainly be co-opting members to help us in this daunting task, and suggestions and input from all the members will be much appreciated.

The Sellers Committee under the leadership of Frikkie Potgieter were responsible for a truly magnificent sellers' area. As usual sales were brisk and many bargains were purchased by both visitors and collectors. They Committee can feel proud on a job well done. My sincere thanks to them for all their hard work and sacrifice with the preparation, building and dismantling of the sellers' area.

Congratulations to our panel of judges. They did duty at all but a few of the various shows held throughout the country. Their hard work and diligence has certainly paid off. A sincere word of thanks to Koos Geldenhuys and his team for all their hard work and initiative, especially during our show.

The AGM of the Clivia Society was held in Bloemfontein in May. Prof Johan Spies was elected Chairman in the place of Chris Vlok, and our congratulations and best wishes go to Prof. Spies. Chris served as Chairman of the Society for a number of years and deserves a well earned rest. During this time Chris did sterling work and our sincere thanks to him for all his hard and unselfish work and excellent leadership. At the same meeting Lena v/d Merwe en Bossie de Kock were again elected to serve as secretary and treasurer respectively en Peter Lambert was elected Vice Chairman in the place of John van der Linde, who too is taking a well earned rest. A sincere word of thanks to John for his hard work and sacrifice.

YB 9 once again proved to be an excellent example of the editorial teams hard work. On behalf of the NCC, I would like to congratulate John van der Linde, Claude Felbert and Roger Dixon on a job well done. Claude and John have resigned from the editorial committee and I wish to thank them for all their hard work and effort over the last number of years. The new editorial committee under the leadership of Roger Fisher certainly has a hard act to follow, but I am sure that they will do an excellent job.

Our two Enthusiast Groups, namely the Waterberg Boslelie Group (under the leadership of Ans Jacobs) and the Lowveld Clivia Interest Group (under the leadership of Daan Dekker) both had magnificent shows in 2007. Both groups are doing excellent work in their areas of the country to make the public more aware of Clivias. We wish them continued success in the future.

Our members' meetings and information sessions were held at the Lapa of the Forensic Sciences Division of the South African Police Services and were generally very well attended. Peter Lambert (Home Remedies for Pests and Diseases and Compost), Dr Gerrit Prinsloo (Viruses), Gerda Gers (Visit to China) and Ian Coates (Photographing Clivias) were our speakers during 2007. Our sincere thanks to all the speakers and also to all the members who took part in the various discussions following the meetings.

A new feature this year was the holding of a "bring and braai" after each meeting. These events were well attended and often carried on much longer than expected. I am sure many a Clivia problem, both horticultural and political, were discussed and solved around the tables over a tasty piece of meat and with a glass of beer or wine in hand.

Thanks to Dave Pieterse for manning the pub and also for providing boerewors rolls at our last meeting.

My sincere condolences to those members who lost loved ones and friends during the year. To those members who are at present ill or injured, I wish a speedy recovery, and to the members and their loved ones who suffered injury or illness during the year, I am glad you

have recovered and am glad to have you back in the fold.

2006 saw three members, Tino Ferero, Ernie Hobbs and Pat Gore, awarded Honorary Life Membership by the NCC as a reward for all their hard work and contributions to the Club. My congratulations to them, they have joined the ranks of legends like Wessel Lotter, Connie and James Abel, Koos Geldenhuys and Frikkie Potgieter.

Wishing all members, enthusiasts and friends a wonderful festive season and may the year 2008 live up to and even exceed your wildest Clivia expectations. &

*Peter Lambert*

*Chairperson. Northern Clivia Club*

## Waterberg Boslelie Group: Eighth Clivia Show: 24 & 25 Augustus 2007

**O**ur Group matched the numbers that attended the 2006 show, again held in the Doppe Hall with 628 visitors, some from far and wide, who came to see the 155 entries we had on show. Seven members did brisk business with their sales stalls.

Willie Wesselman and his team did the judging on Thursday 23rd of September and he was generally satisfied with the quality of the presentations while also pointing out some faults and weaknesses. One of the members again made the attractive medals, this year laminated, and ten members received awards as follows:

- Rina v.d.Merwe: 3rd Best on Show, 8 Gold, 3 Silver, 1 Bronze and 5 Group;
- Bets Rossouw: Best on Show, 2nd Best on Show, 10 Gold, 4 Silver, 2 Bronze and 9 Group;
- Wim Fourie: 1 Gold, 4 Silver, 3 Bronze and 1 Group;
- Ans Jacobs: 8 Gold, 11 Silver, 8 Bronze and 4 Group;
- Flip du Plessis: 1 Gold and 1 Bronze;
- Hennie Pieters: 1 Silver and 1 Bronze;
- Willem Hattingh: 6 Gold, 2 Silver, 3 Bronze and 1 Group;
- Dorothy Maritz: 2 Gold, 2 Silver, 4 Bronze and 1 Group.
- Jurie van Rooyen: 1 Gold and 1 Silver.
- Gordon Smart: 1 Gold, 1 Silver and 1 Group

The Grade 8 and 9 learners of the Nylstroom Hoërskool [High School] came to light with 300 of their drawings of Clivias as they see them! A retired art teacher adjudicated them and chose six winners. Each was given a Clivia in bloom and six Clivia fruit as prizes. Thereafter we gave the school a gift of seeds in the hope that these would become entries for the 2008 seedling class!

[Translated from the Afrikaans – Ed] &

*Ans Jacobs*

**KiwiClivia****New Zealand Clivia Club Inc.***Dear Clivia Friends,*

In recent years we Kiwi's have enjoyed hospitality at symposiums 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](mailto:KiwiClivia2008@xtra.co.nz). Thereafter we will keep you personally advised. Please note that since we have discontinued our website, we can only respond to you via email.

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*





**CLIVIA SOCIETY PUBLICATIONS**

Overseas members can order back volumes of the Yearbooks and volumes of 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](mailto: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, Jaco Nel, Alick McCleman and William McClelland respectively – see inside back cover 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 \$)*
Clivia2006 Conference Proceedings on double DVD	Please contact treasurer for pricing
Yearbook 9	15
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
Newsletters after 2002 per number	1,5
Volumes 1(1992) to 11 (2002) of quarterly newsletters	10 per volume
Set of volumes 1 to 10 of quarterly newsletters	available on request

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

## REPRESENTATIVES OF CLIVIA ENTHUSIASTS

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## OTHER OVERSEAS CONTACT PERSONS FOR MEMBERSHIP APPLICATION

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## CONTACT DETAILS FOR CLIVIA CLUBS AND INTEREST GROUPS

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