

LOGAN & DISTRICT ORCHID SOCIETY INC.

NEWSLETTER



June 2016

Foundation Date January 1976.

Thelymitra ixioides

Spotted Sun Orchid

Postal Address

PO Box 411 WOODRIDGE 4114
Queensland Australia

Patrons: Logan City Mayor Luke Smith
and Graham Oldham

President Ken Martin	Ph 3341 5474
k.marto0011@gmail.com	
Vice President Trevor Cook	Ph 3345 4049
Secretary Jan McKenzie	Ph 3208 8721
Treasurer Doug Mogg	Ph 3806 5316
N'letter Editor Reg Illingworth	Ph 3800 3213
lados.editor@bigpond.com	

Committee Members

Adrian Bergstrum	Ph 3805 8224
abergstrum@hotmail.com	
Librarian Trish Roulstone	Ph 5546 1210
Myrella Coppus	Ph 3341 5691
Phillip McCallum	Ph 3427 7774
Pam Price	Ph 3345 6143
Kurt Raup Web Master	Ph 3388 8771
Alfred Filia	Ph 3844 4704
Norm Roulstone	Ph 5546 1210



Web Address:
www.lados.org.au

Next Monthly Meeting:

Tuesday 21st June 2016

Commencing at 7.30pm.

Logan Central Community Centre
Cnr Jacaranda Ave & Wembley Road
Logan Central.

Next Committee Meeting:

Tuesday 5th July 2016

Commencing at 7.30pm.

Logan Central Community Centre

JUDGES' CHOICE SPECIAL INTEREST PLANT OF THE MONTH



Plant Name: *Ionopsis (Inps.) utricularioides*

Exhibitor: Ken Haase

Owners Comments

Housing: Orchid is grown in a covered shade house with 60% shade on roof, including solar weave and 50% on sides. Four fans run during daylight hours to circulate hotter air that gathers in the gable roof. This orchid is a cool to warm grower and requires high light at around 2000 to 3000 foot candle. This orchid is mounted on cork and is hung over the benches to maximise the amount of filtered light.

Feeding: Orchid is fertilised using Horticultural Solutions HSO22 and HSO12 alternating fortnightly between both 12 months of the year. Rate is 1 gram per litre. On alternate fortnight orchids are foliar fed using HSO22 and HSO12 at same rate above but also adding Amino K and Hy-san to the foliar feed.

Watering: In summer because the orchid is mounted on cork it is watered at least daily and sometimes more in excessive heat. Watering or misting is less in winter but would be misted on average every day in mid morning after it has warmed up a little. However take note of the prevailing weather conditions and alter the frequency depending on whether it is extremely hot summer days or cooler than normal conditions. The orchid house is also misted regularly especially on hot days.

Any Other Cultural Notes: ORIGIN/HABITAT: Florida in the USA, the West Indies, Mexico, Central America, and southward into central South America. Plants usually grow below 1000 m, but in some habitats, they are found as high as 1300–1500 m. This orchid is usually attached to the twigs and branches of trees or bushes, along streams in humid regions that have relatively dry winters. Visitors to the habitat report that this species quickly becomes a weed in moist forest regions, growing in hedges and ornamental trees and shrubs. -- Source: Charles Baker

Work Roster for June 2016

Hall Set-up at 6.30pm

Those that can come early.

Supper: Win Watts and Glynis Cox

Editorial

This month we have the usual format for page 1 with a photo of *Ionopsis (Inps.) utricularioides* and info about it from ken Haase, Page 2 the Shows to come, Committee notes, and the guest speaker for June will be Margaret Tierney on how she grows her Paphs, Margaret is a very successful Slipper grower and I'm sure her talk will give you clues as how you can also be successful. Page 3 has the minutes from the May meeting, and potting supplies information. Page 4 the benching for the May meeting while Page 5 has the 1st placed plants photos. Page 6 Barry's Column this month, Page 7 the info on Reg and Maree as to why the members of this society decided to grant the privilege of Life Membership, the next Cultural meeting at our place in July, page 8 & 9 has parts 3 & 4 of an article by Dr George Tsambourakis about bacteria with another lot to come, the last lot has colour photos to enable you to identify Bacterial infections, George has spent a lot of time researching this info and it is very important for serious orchid growers.

The cultural meeting for June must have confused members even though it was stated in the last Newsletter and at the meeting that it will not be on the First Saturday in June but the Second Saturday as we will be away in Ayr at the Tropical Qld Orchid Council Conference & Show. It was very disappointing that only 4 members turned up for a very good session on growing Vandas. I don't know if anyone reads the Newsletter or has any interest in their plants.

The trip to Ayr was really good, we drove up taking 2 days as we stopped the first night in Rockhampton and on to Ayr the second day, the first job of the weekend was spent judging the show and then attending some very good lectures about orchid growing. The TQOC conferences are very good as you get to meet growers from all over Qld and as part of the registration are supplied with all meals for the Weekend. The trip home was without drama and we arrived home on the Tuesday. Being away this weekend was strange as we missed all the wild weather that the southeast corner experienced.

Reg

COMMITTEE NOTES June 7, 2016

Ken Martin is still waiting for a Sausage Sizzle date at Bunnings.

Everyone is working very hard on preparations for the show. Trish Roulstone wants you to begin bringing back raffle tickets and money for the Cancer Raffle.

Phil McCallum is investigating options for new society shirts. More on this at the next General Meeting.

Jan McKenzie (Secretary)

Judges for the June Meeting

There will be four Judges and any associate Judges that request to observe the procedure.

If there are sufficient plants on the benches the Judges will operate in 2 teams.

The Judges are: Don Nitschinsk, Michael Billiau, John Roberts and a replacement for Jeanne Rutherford.

Associates Gordon Grant, Jan Teufel.

Members wishing to help with the stewarding please see Maree as she will be selecting them on the night.

SHOWS TO COME

North Moreton Qld O. C.	25/26 June	Auditorium, Mt Coot-tha, Botanic Gardens.
John Oxley District O.S.	16-28 July	Auditorium, Mt Coot-tha, Botanic Gardens.
North Qld O. S. Cairns	20-22 July	Cairns Showgrounds, Mulgrave Rd. Cairns.
Proserpine Orchid & Foliage S.	24 July	Annual Field Day.
The Atherton Tableland O. S.	11/12 July	Atherton Showgrounds.
Toowoomba O. S.	16/17 July	St Pauls Hall , James & Phillip Streets Toowoomba.
Townsville O. S.	15/17 July	Townsville O. S. Hall Charles Street, Kirwan.

GUEST SPEAKER FOR THE JUNE MEETING

The Guest Speaker for the June meeting will be Margaret Tierney. Margaret will give a talk on how she grows her Slipper Orchids

COUNCILLOR

Phil Pidgeon
Division 9

Proud to
support the
Logan and
District
Orchid
Society



FOR ANY HELP WITH COUNCIL MATTERS

Telephone: (07) 3412 5402

Mobile: 0411 869 109

email: philpidgeon@logan.qld.gov.au

MINUTES LOGAN & DISTRICT ORCHID SOCIETY INC GENERAL MEETING

17th MAY 2016

OPENING: President Ken Martin opened the meeting at 7.30pm.

WELCOME: to members and visitors, to our judges Don Nitschinsk, John Roberts, Adrian Bergstrum, David Cleal.

APOLOGIES: as per register.

MINUTES: The minutes of the April meeting were published in the Newsletter.

Acceptance of the minutes as a true record - moved by Jim Zimmerman and seconded by Norm Roulstone.

CORRESPONDENCE INWARDS and OUTWARDS: Accepted moved Jan McKenzie seconded Norm Roulstone.

FINANCIAL STATEMENT: Treasurer Doug Mogg moved and seconded that the statement showing balances of \$10,721.20 Investment Account \$6246.63. Additional accounts for payment, Garden City Plastics \$34.70 pots, R. Illingworth \$48 May Postages, Fernland Agencies \$45.10 clips.

NEW MEMBERS: John and Fran Burns were welcomed to the Society.

GENERAL BUSINESS:

KEN: Centro Display Report: good display but smaller than usual, 20 plants only – not sold. Mainly not in flower dancing ladies and soft canes. Thanks to members who worked. No interest in a mini show at Arcare.

JAN: JOHN OXLEY SHOW 16TH AND 17TH July Set up 15th July.

Is anyone interested in doing that display, please see me and give their names and arrange to pick up the black material and shield? No response so far.

PAM: SHOW UPDATE: Lots of help will be needed to set-up and run the show so be prepared to agree when asked to help.

LAIDLEY BUS TRIP: little response. Looks unlikely. Next meeting will tell.

Trade Sales Report: No report from Adrian who was judging.

Library Report: Trish Roulstone / Bring back anything outstanding. Trish is also organising the Cancer Council Raffle. Tickets were handed out tonight.

WEB MASTER: Kurt Raup updates the website constantly. Phil McCallum started a Facebook page for the club.

CLUB NAME BADGES: available from Doug Mogg - \$9 each.

KITCHEN DUTIES ROSTER FOR JUNE MEETING: Win Watts (new member) And Glynis Cox.

CULTURAL OFFICER'S REPORT: Reg Illingworth 2nd Saturday in June - Vandas - See Newsletter. Watch Gardening Australia 11 June and 18th June.

GUEST SPEAKER: Guest speaker was Adrian Bergstrum.

JUDGES' CHOICE AWARDS:

CULTURAL AWARD: *Bulb. Elizabeth Anne* Ken Haase

SPECIAL INTEREST AWARD: *Inps. utricularioides* Ken Haase

POPULAR VOTE: Open *Inps. utricularioides* Ken Haase

Novice/Intermediate *Cyc. Golden Showers x barthurium* Ryan Hocking

The Meeting closed at 9.30 pm.

Secretary Jan McKenzie

POTTING SUPPLIES

ORCHIATA Bark is available FROM Ken Martin, Phone 3341 5474. 9 Dianna Street UNDERWOOD.

It is available in 4 sizes, Small 6-9mm, Medium 9-12mm, Large 12-18mm and Extra Large 18-25mm.

The price to LADOS members is \$25.00 per 40L bag

Coconut Chips are available from Garden City Plastics 188 North Road WOODRIDGE, Ph 3443 7700

Adrian has sourced Charcoal in 10L bags @ \$10 a bag and is available from Ken.

When buying a quantity of any product, Adrian has requested that you ring him so a suitable supply of stock can be brought to the hall as it makes it possible for other members to purchase product.

You can call him, Adrian Bergstrum ☎ 3805 8224 or Email abergstrum@hotmail.com. It is probably best to call before lunch as Adrian works an afternoon shift at WW bulk store.

JUDGES CHOICE RESULTS FOR MAY, 2016

1 DENDROBIUMS:		
1	<i>Den. Miss Singapore</i>	Haase K
2	<i>Den. Shavin White</i>	Mogg D
3	<i>Den. Samarai *</i>	Roulstone N & T
2 CATTLEYAS Over 100mm:		
1	<i>Rlc. Swan's Sundance</i>	Haase K
2	<i>C. Inez Okimoto x Curtsy 'Snowy'</i>	Haase K
3	<i>C. Donna Kimura 'Paradise Tami'</i>	Cook T
3 CATTLEYAS 60-100mm:		
1	<i>C. Dal's Choice 'Jimar'</i>	Zimmerman J & M
2	<i>Rlc. QOS 80th Anniversary</i>	Baxter L
3	<i>C. Royal Beau 'Alex L'</i>	Zimmerman J & M
4 CATTLEYAS Under 60mm:		
1	<i>Rth. Free Spirit 'H & R'</i>	Haase K
2	<i>C. Mamilani 'Rainbow'</i>	Kapernick G
5 CATTLEYAS Novelty or Cluster:		
1	<i>Col. Snow Ballet</i>	Roulstone N & T
2	<i>C. Highland Spots 'Marie'</i>	Maggs G
3	<i>C. Caudebec x Rlc. Love Sound</i>	Maggs G
6 PAPHIOPEDILUM:		
1	<i>Paph. Myra</i>	Tierney M
2	<i>Paph. Makuli</i>	Tierney M
3	<i>Paph. Hsinying Malone</i>	Tierney M
7 VANDACEOUS ALLIANCE Flowers up to 40mm:		
1	<i>V. Unknown</i>	Baxter L
2	<i>Ren. Unknown</i>	Baxter L
3	<i>V. Suksamran Sunlight 'Goldie'</i>	Roulstone N & T
8 VANDACEOUS ALLIANCE Flowers over 40mm:		
1	<i>V. Pachara Delight</i>	Bergstrum A
2	<i>V. Pure's Magic *</i>	Mogg D
3	<i>V. Pakchong Blue 'Giant Blue'</i>	Mogg D
10 ONCIDIINAE:		
1	<i>Ons. Wildcat 'Blood Shot'</i>	Haase K
2	<i>Im. Popcorn 'Haruri'</i>	Haase K
3	<i>Ons. Everglades Elegance 'Nancy Lee'</i>	Baxter L
11 MISCELLANEOUS LARGE 50mm and over:		
1	<i>Bulb. Elizabeth Ann</i>	Haase K
2	<i>Bulb. Wilmar Grandeur</i>	Haase K
3	<i>Cycd. Wine Delight</i>	Illingworth R & M
12 MISCELLANEOUS SMALL Under 50mm:		
1	<i>Epi. Topaz Delight 'Light Pink'</i>	Cox G
13 AUSTRALIAN NATIVE HYBRID DENDRONBIUM:		
1	<i>Den. Fantasy Land 'Sweetie'</i>	Haase K
2	<i>Den. Hilda Poxon</i>	Kapernick G
14 AUSTRALIAN NATIVE HYBRID OTHER THAN DENDRONBIUM:		
1	<i>Sarco. Velvet</i>	Tierney M
15 AUSTRALIAN NATIVE SPECIES:		
1	<i>Den. bigibbum</i>	Roulstone N & T
16 SPECIES EXOTIC SYMPODIAL:		
1	<i>Inps. utricularioides</i>	Haase K
2	<i>Bulb. echinolabium</i>	Haase K
3	<i>Den. curviflorum</i>	Stewart M
17 SPECIES EXOTIC MONOPODIAL:		
1	<i>Pthia. insectifera</i>	Bergstrum A
2	<i>Phal. pulcherrima</i> var. <i>buyssoniana</i> 'Superporn' x var. <i>champornensis</i> 'Brighton'	Stewart M
3	<i>Pthia. insectifera</i>	Copley-Bishop J
18 INTERMEDIATE CATTLEYA ALLIANCE:		
1	<i>Rlc. Coconut Ice x Cma. Dal's Toy 'Lily's Carnival'</i>	Filia A & K
2	<i>Rlc. Rosella Scorpio</i>	Filia A & K
3	<i>C. Hawaiian Jewel</i>	Lynch R & D
19 INTERMEDIATE DENDROBIUM ALLIANCE:		
1	<i>Den. Unknown</i>	Lynch R & D
2	<i>Den. Unknown</i>	Filia A & K
3	<i>Den. Chao Praya Gem x (Dal's Delux x Dal's Diamond)</i>	Lynch R & D
20 INTERMEDIATE ANY OTHER GENUS:		
1	<i>Spa. Bill Southward</i>	Lynch R & D
2	<i>Alcra. Tropic Tom 'Kinky'</i>	Filia A & K
3	<i>Whm. Pinot Princess</i>	Filia A & K
21 NOVICE CATTLEYA ALLIANCE:		
1	<i>Rlc. Burdekin Storm 'Midnight'</i>	Jeffrey K
2	<i>Ctt. Portia</i>	Hatzirodos J
3	<i>Rth. Thi-Ti</i>	Hocking R
22 NOVICE DENDROBIUM ALLIANCE:		
1	<i>Den. Tomie Drake x Kiyomi Beauty x Mung 'Korn Star' x Ekapol</i>	Hatzirodos J
2	<i>Den. Burang Nong ?</i>	Jeffrey K
3	<i>Den. Airy Crimson ?</i>	Hatzirodos J
23 NOVICE ANY OTHER GENUS:		
1	<i>Cyc. Golden Showers x barthiorum</i>	Hocking R
2	<i>Epi. secundum</i>	Watts W
3	<i>V. Boonyarit Gold</i>	Hocking R
Cultural Award		
	<i>Bulb. Elizabeth Anne</i>	Ken Haase
Special Interest Plant of the Month		
	<i>Inps. utricularioides</i>	Ken Haase
Popular Vote—Open		
	<i>Inps. utricularioides</i>	Ken Haase
Popular Vote—Novice & Intermediate		
	<i>Cyc. Golden Showers x barthurium</i>	Ryan Hocking

CORRECTION TO PLANT TAGS

Would all Members who will bench orchids at any future meetings, please change their plant tags as

necessary, so that we do not have to do these alterations continuously.

Changes are marked in **Red** and with an *****

First placed orchids at the May meeting photos by Reg Illingworth



1. Dendrobium
1st. *Den. Miss Singapore*
Haase K



2. Cattleyas – Over 100mm
1st. *Rlc. Swan's Sundance*
Haase K



3. Cattleyas – 60mm to 100mm
1st. *C. Dal's Choice 'Jimar'*
Zimmerman J & M



4. Cattleya Under 60mm
1st. *Rth. Free Spirit 'H & R'*
Haase K



5. Cattleyas – Novelty or Cluster
1st. *Col. Snow Ballet*
Roulstone N & T



6. Paphiopedilum
1st. *Paph. Myra*
Tierney M



7. Vandaceous Alliance Flowers up to 40mm
1st. *V. Unknown*
Baxter L



8. Vandaceous Alliance Flowers over 40mm:
1st. *V. Pachara Delight*
Bergstrum A



10. Oncidiinae
1st. *Ons. Wildcat 'Blood Shot'*
Haase K



11. Miscellaneous Large 50mm & Over:
1st. *Bulb. Elizabeth Ann*
Haase K



12. Miscellaneous Small Under 50mm:
1st. *Epi. Topaz Delight 'Light Pink'*
Cox G



13. Australian Native Hybrid Dendrobium
1st. *Den. Fantasy Land 'Sweetie'*
Haase K



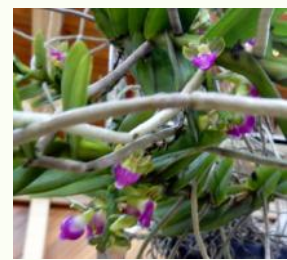
14. Australian Native Hybrid Other Than Dendrobium:
1st. *Sarco. Velvet*
Tierney M



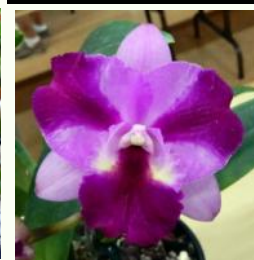
15. AUSTRALIAN NATIVE SPECIES:
1st. *Den. bigibbum*
Roulstone N & T



16. Species – Exotic Sympodial
1st. *Inps. utricularioides*
Haase K



17. Species – Exotic Monopodial
1st. *Pthia. insectifera*
Bergstrum A



18. Intermediate – Cattleya Alliance
1st. *Rlc. Coconut Ice x Cma. Dal's Toy 'Lily's Carnival'*
Filia A & K



19. Intermediate Dendrobium Alliance
1st. *Den. Unknown*
Lynch R & D



20. Intermediate – Any Other Genus
1st. *Spa. Bill Southward*
Lynch R & D



21. Novice Cattleya Alliance
1st. *Rlc. Burdekin Storm 'Midnight'*
Jeffrey K



22. Novice Dendrobium Alliance:
1st. *Den. Tomie Drake x Kiyomi Beauty x Mung 'Korn Star' x Ekapol*
Hatzirodos J



23. Novice Any Other Genus:
1st. *Cyc. Golden Showers x barthiorum*
Hocking R

Barry's Column

Some Plants Tabled At The May Meeting

In Species Sympodial was an *Ionopsis utricularioides*, a plant of miniature proportions but with a spike that was anything but; it presented some hundred or so blooms from a many branched stem, these were dominated by large bi-lobed lips with the minute petals giving the impression of being their side-lobes. The base tone was of a soft lavender hue with fine mauve lines, which were darker at their bases, radiating out from the white lamellae to the apex. The huge number of blooms on a naturally small, growing plant made for a most eye-catching (and desirable) exhibit.

A *Bulbophyllum echinolabium* var. *simanis* had four spikes, the tallest having the usual single bloom typical of a repeat flowering entity, evidence of six previous flowers, another with it's first, one yet to open it's first, and a longish spike yet to present a bud. The species, *Bulb. echinolabium* has been commented on several times previously in the newsletter and to memory this variety seemed not to differ to those previous types. I obtained seedlings of this variety a couple of years ago but am yet to flower them, and shortly after obtaining them, endeavoured to gain some information towards their varietal status but without success, and this time must again be searching in the wrong places, so if the grower or anyone else can provide details as to what differentiates this variety from the type form, perhaps they might mail (e or snail) such to the editor.

In Miscellaneous Large was a *Bulbophyllum echinolabium* hybrid, *Bulb. Wilmar Grandeur* carrying three spikes, one with a bud, the others with a bloom each that were of a pale yellowish base colour that was difficult to distinguish due to the heavy brownish spotting and longitudinal striping of the segments, the tips of the tapered red toned lips reflexed rearwards.

In the previous section was a *Bulb. Elizabeth Ann* with seven spikes, several with seven blooms, none with less than five, their yellow green base colour had reddish striping to the length of their quite long ventrals, this characteristic attributable to it's *B. longissima* parent, the petals and dorsals were marginally fringed with dark hairs. This could arguably be one of the most successful and popular hybrid grexes within *Bulbophyllum*.

Tabled in Novice Any Other Genus was a *Vanda* (Ascda.) *Boonyarit Gold* with twelve blooms which were well presented on an upright spike which held them clear of the foliage, these predominantly yellow flowers had large segments and showed some gapping at the petal bases; all segments carried fine spotting which featured more heavily so to the ventrals which were also brushed a green hue over the yellow base tone, the green also varying over to the lip tips. The flower form was quite acceptable in out-line and this coupled with their colouration made a most presentable exhibit.

Cattleya over 100mm featured a *C. Inez Akimoto* x *C. Curtsy 'Snowy'* with two spikes, each of which bore two large predominantly mauvish blooms that boasted broad lips with yellow bases and purple mid-lobes whose goffered tops were edged with fine pale mauve bands. The petals were slightly overlapping making for full form.

An *Rlc. Swan's Sundance* carried a single predominantly yellow base-toned polychrome bloom, that, though not large when compared to some of those accompanying it in *Cattleya* Over 100mm, was of very good flat form, it's goffered petal edges were flushed a reddish-mauve (?) tone, the lip tip was edged mauve which was backed by a rose-purple band that separated it from the yellow basal area that featured fine stripes over its length and others more shorter more deeply within.

Australian Native Hybrid *Dendrobium* had tabled a *Den. Fantasyland 'Sweetie'* a plant of not large bulbs, being in the 'compactum' style of phalaenanth with fifteen spikes, the majority with eight blooms apiece, which made for a quite floriferous display. *Dendrobiums*, if not actually *Fantasy Land*, but having a similar appearance are frequently seen at meetings and shows and a few years ago there would be many a query regarding their native hybrid validity which of course checked out to be a native crossing. I put 'compactum' in quotations because 'Sanders' does not observe varieties in registration, one can only assume (not illogically) that smaller forms of *D. bigibbum* were involved. As plant size is being discussed, I feel it should be mentioned the only other parent used was *Den. canaliculatum*, only once, in the primary cross, compared to three infusions of *Den. bigibbum*. Perhaps *Den. canaliculatum* may still influence growth size but *bigibbum* nicely controls flower form.

In the last newsletter (May) the name of the first placed entry in Class 19 was in red type as (*Den. Asternova Snowflake* x *Dal's Delux*) x *Den. (Memory* x *Burbank Queen*). I had cause to check a cross labelled with this second grex formula a couple of years ago to find no *Dendrobium* grex name with 'Memory' as a stand-alone term; again on this occasion the percentage (memory %) search brought up (to my conclusion) only one phalaenanth cross, *Den. Dal's Memory*, the balance being (to my determination) 'soft-canes'.

I was able to back check my results on the previous occasion when I located (when looking for something else) an early catalogue from the nursery involved and finding the stock number concerned, discovered that the clone concerned was indeed *Den. Dal's Memory*, so it seems quite likely that the plant now discussed could well be of the same name. *Den. (Dal's Memory* x *Burbank Queen*) was registered as *Den. Swan's Crystal* in 2012.

**This is part of the address given at the Annual General Meeting in February,
a meeting that conferred Life Membership on Reg and Maree Illingworth.**

Ladies and Gentlemen,

It is my pleasure, tonight, to announce a decision taken by the committee, (and we hope you, the membership will vote in favour of it) that Life Membership be granted to REG AND MAREE ILLINGWORTH.

Reg and Maree Illingworth have been members of the Logan and District Orchid Society for many years. In that time they have taken on a large number of jobs, bringing to those tasks , real dedication, energy, efficiency and enthusiasm. They have given of their time, unstintingly.

These are **some** of the things that **Maree** has done for the **Society**.

Maree Illingworth

Maree types the Newsletter.

Until recently, she organised the judges and stewards at General Meetings.

She is the recorder of monthly meeting results

For many years, Maree organised floral art displays at other shows e.g. BOS and John Oxley.

She is Show Society Secretary (letters to other clubs, printing of flyers, signs, benching tags, nomination forms.

She is Co-host of Saturday morning New Growers' Group.

She takes members on inspections of her orchid houses. Maree is a grower in her own right.

These are **some** of the things that **Reg** has done for the **Society**.

Reg Illingworth

Reg is the teacher of the Saturday Morning New Growers' Group.

He is the host, generously welcoming 20 or more members.

Until recently he with others collected the pallet of Bark from the transport depot and then stored it along with Charcoal at his premises.

Newsletter Editor and distributor

Reg liaises with the Logan Council through Councillor Pidgeon to have the newsletter printed.

Reg is in charge of the A.V. Equipment at General Meetings and the P.A. system.

He is the printer of forms and society business cards at the ANNUAL SHOW,

He was Show Marshal until this year.

In charge of A.V. Equipment, Computers, Recording results, photos of champions, Laminating of certificates.

Organising of judges and stewards

Book Sales

(He even picks up the Terra Firma product donations from Beaudesert)

Ladies and Gentlemen, I move that Reg and Maree Illingworth be made

Life Members of the Logan and District Orchid Society.



Reg and Maree were presented with their Life Membership Certificates and Badges at the May General Meeting by the President Ken Martin.

The Logan and District Orchid Society Inc.

Saturday Cultural Information Meeting

Invitation to all Logan & District Orchid Society Inc. members to attend the meeting of the The Logan and District Orchid Society Saturday Cultural Information Meeting, at 51 Lionheart Street Forestdale 4118

The meeting will be at 9.30 am on Saturday the 2nd of July 2016

The topic for the June meeting is **The Genus Catasetum**

Please bring along any problem plants or a plant in need of a repot and if time permits we can discuss these problems and repotting methods.

As with previous meetings it would be appreciated if you would contribute \$1.00 towards the cost of photocopying.

Our phone number is: 3800 3213

Our address is: 51 Lionheart Street
Forestdale 4118

Maree and Reg are looking forward to seeing you on the day.

BACTERIA

George Tsambourakis PhD

Prevention:

Control can be achieved by simply improving the conditions in the Greenhouse or the area where Orchids are kept.

Regularly check plants for any signs of injury, insect bites or unusual lesions. Bacteria must find a wound to invade; therefore plants are vulnerable if some kind of wound is present. Bacteria need moisture to survive, multiply and attack. Bacteria do not survive at high temperatures (above 45°C) and dry conditions (0% humidity).

Air circulation must be adequate for the plants to dry at a reasonable time after watering. Quarantine newly purchased plants for a few days.

Most disease causing “Phytopathogenic” bacteria are species of the following 6 Genera: *Acidovorax*, *Burkholderia*, *Pseudomonas*, *Pectobacterium*, *Erwinia*, and *Bacillus*. In literature, *Phytomonas*, a protozoan parasite, is mixed up with *Pseudomonas*, a bacterium.

Treatment:

The best eco-friendly remedies to treat bacterial diseases are: Heat (not suitable to treat orchids), Salt (Not suitable to treat orchids), Honey, Cinnamon, Cassia, Garlic and Hot Chilli. Cinnamon or Cassia powders can be mixed with a vegetable oil, like canola oil, to create a “paste”. The paste can be used to smear wounds and prevent infections from spreading. Garlic and Hot Chilli are extremely strong and 100’s of year old recipes do exist. Don’t use them if you don’t know how. Chemicals sold as “Bactericides” do exist but not all work as sold by the manufacturer.

When signs of bacterial infection are noticed, the infected parts such as leaves, bulbs, stems, etc., should be removed (cut) and burned. The plant should be isolated, the wound must be treated and surrounding plants should also be attended to with a suitable bactericide.

Herbicides, Insecticides, Pesticides or Fungicides do not kill bacteria.

Bacteria

Genus: *Acidovorax*: Bacterial Brown Spot (**BBS**); Leaf Spot (**LS**)

***Acidovorax avenae subsp. cattleyae* (AAC).** Rod shaped, Non-spore forming bacteria. Destructive disease.

Host Genera: *Cattleya*, *Cypripedium*, *Dendrobium*, *Oncidium*, *Vanda*, and *Phalaenopsis*.

Symptoms: Soft, water-soaked translucent lesions that become soft and often break. The exudates contain numerous bacteria that can easily spread to other parts of the same plant or surrounding plants. Lesions turn slowly brown or black.

***Phytomonas cattleyae* syn. *Acidovorax avenae subsp. cattleyae* syn. *Pseudomonas cattleyae*.**

Genus: Pseudomonas: Bacterial Brown Rot (**BBR**); Bacterial Leaf Spot (**BLS**); Bacterial Brown Spot (**BBS**); Bacterial Brown Wet Spot (**BBWS**); Very active when wet.

Pseudomonas cattleyae: Bacterial Brown Wet Spot (**BBWS**).

Host Genera: Observed on Phalaenopsis but may attack any other orchid genera.

Symptoms: Visible on leaves as brown, brownish or brownish-black moist blisters. The bacteria will spread very rapidly and the disease eventually will kill the plant if not treated. Stop overhead watering. Remove all infected leaves.

Genus: Erwinia: Bacterial Brown Rot (**BBR**); Bacterial Soft Rot (**BSR**); Bacterial Soft Brown Rot (**BSBR**); Bacterial Leaf Spot (**BLS**); Bacterial Bulb Rot (**BBR**).

Erwinia carotovora syn. **Pectobacterium carotovorum:** Rod-shaped bacterium that causes the destruction of the plant's cell walls and creates an osmotically fragile cell.

Host Genera: Oncidium Alliance orchids and other Genera.

Symptoms: The bacteria are characterized as slimy and foul smelling. The bulbs of infected plants turn soft and yellowish in colour. Allegedly, the bacteria can survive in insects gut for hours and can be transferred from plant to plant by insects. Observed in the surface of water but it is unknown if it can survive in the soil, although in some reports it is described as "a soil inhabitant".

Erwinia cypripedii: Brown Rot (**BR**):

Host Genera: Serious threat to Paphiopedilum, are highly contagious and spread very rapidly when unchecked. It requires over 65% humidity and temperatures above 18°C to grow and multiply.

Symptoms: Small to medium size translucent, almost circular "spots" that grow and join together and form larger "sunken" lesions. If unchecked, it spreads rapidly and when it reaches the crown the plant will be completely rot and collapse, although many leaves may still remain healthy looking. Infected areas exude moisture that contains infectious bacteria, and these pose a serious danger to surrounding plants.

Erwinia chrysanthemi: **The disease is said to be incurable.**

Host Genera: Devastating bacterial pathogen in Phalaenopsis.

Symptoms: Causes soft-rot by secretion of cell wall-degrading enzymes. Later, a foul smelling liquid starts to ooze from the bulbs.

Genus: Pectobacterium: Bacterial Soft Rot (**BSR**); Bacterial Soft Brown Rot (**BSBR**);

Pectobacterium carotovorum syn **Erwinia carotovora.**

Rod shaped bacterium of the family Enterobacteriaceae, was formerly a member of the genus Erwinia. **Host Genera:** Diverse host range.

Pectobacterium chrysanthemi syn. **Erwinia chrysanthemi.** Anaerobic.

Genus: Bacillus: Bacterial Leaf Spot (**BLS**); Bacterial Brown Rot (**BBR**);

Bacillus is a rod-shaped bacterium and includes both free-living and pathogenic species.

Genus: Burkholderia: Bacterial Brown Rot (**BBR**); Bacterial Leaf Spot (**BLS**); Previously part of Pseudomonas. **Burkholderia gladioli.** Rod-shaped bacteria.

Host genera: Dendrobium, Oncidium, Miltonia species and hybrids.

Sapsucking insects can easily become vectors and contaminate healthy plants and spread the bacteria.

Parts 3 & 4 of an Article on Bacteria by **George Tsambourakis PhD**, more parts to follow over the next month with Photos of Bacterial Rots.