

Mem No Members Name Plant Name Place

## Cattleya Hybrid

### A1 Cattleya Alliance Predominantly White Standard over 110mm

- 67 Zimmerman J & M Blc. Brunswick Ailemma First  
 67 Zimmerman J & M Rlc. Kestlin's Esther Second  
 18 Stewart M Rlc. Kashins Esther Third

### A2 Cattleya Alliance Predominantly Yellow or Green Standard over 110mm

- 67 Zimmerman J & M Blc. Goldenzelle 'Lemon Chiffon' First  
 128 Roulstone N & T Blc. (George King x Erin kobayshi) x Blc. Second

Serene Sunset

- 18 Stewart M Blc. Dals Thunder Third

### A3 Cattleya Alliance Predominantly Purple, Mauve or Lavender Standard over 110mm

- 67 Zimmerman J & M Blc. Mem. Gordon Valance "Marg" First  
 67 Zimmerman J & M Blc. Mem. Gordon Valance "Marg" Second  
 18 Stewart M Blc. Dundas 'Olga' Third

### A4 Cattleya Alliance Any Other Colour - Includes splashed/ flared types Standard over 110mm

- 67 Zimmerman J & M Blc. Brunswick Carnival First  
 41 Baxter L Blc. Glorious May 'H & R' Second  
 67 Zimmerman J & M Blc. Dals Dynamite Third

### A5 Cattleya Alliance Compact & Miniature - 80mm & under

- 226 Haase K Rlh. Free Horizon x Pot. Free Spirit First  
 67 Zimmerman J & M Hsgn. Red Stella Second  
 226 Haase K C. Free Spiri 'H & R' Third

### A6 Cattleya Alliance Non Standard Any Size

- 502 Hile G Pot. Little Magician x Lc. Susan Holcombe First  
 128 Roulstone N & T Slc. Jungle 'Olga' x C. Caudebec Second  
 18 Stewart M Epc. Rene Marques 'Flame Thrower' Third

### A7 Cattleya Alliance Cluster

- 63 Pritchard T & B Blc. Hawaiian Passion x Enc. Bees First  
 Knees

- 93 Mogg D C. Gold Digger 'Fuchs Mandarin' Second

- 159 McKenzie J & I Gct. Rest in Peace Third

## Paphiopedilum

### B1 Paphiopedilum Complex - Any Colour - Spotted and Unspotted

- 86 McCubbin J & M Paph. Mem Barbara Francis No.2 First  
 86 McCubbin J & M Paph. Global Passport Second  
 86 McCubbin J & M Paph. Global Harmony x Warrawong Third

### B2 Paphiopedilum Primary Hybrid

- 21 Tierney M Paph. Bernice (philippines x lowii) First  
 86 McCubbin J & M Paph. Ma Belle Second

### B3 Paphiopedilum Any Other Hybrid

- 86 McCubbin J & M P. Macarbre 'John' First  
 12 Illingworth R & M Paph. After Dark x Hsinying Carlos Second  
 31 Bowen B Paph. Ninja Third

### B4 Paphiopedilum Species

- 86 McCubbin J & M Paph. suthekulii 'Green Giant' First  
 86 McCubbin J & M Paph. tranlienianum Second  
 86 McCubbin J & M Paph. villosum 'Ken' Third

## Vandaceous Alliance

### C2 Vandaceous Alliance, Vanda Hybrid over 60mm

- 93 Mogg D V. Princess Blue 'Blue Boy' First  
 218 Kehoe A V. Chao Praya Velvet m/c Second  
 6 Cleal D V. Gordon Dillion Black Third

### C3 Vandaceous Alliance, Vandaceous Any Other Hybrid

- 35 Buchanan J & P Rhy. Hiroya x Rhy. gigantea First  
 35 Buchanan J & P Rhy. Hirota x Rhy. gigantea Second  
 226 Haase K Rhy. Kultura Third

## Phalaenopsis

### D1 Phalaenopsis, Standard Type Predominantly White

- 94 McCully P & JPhal. Sogo Musadian First  
 94 McCully P & JPhal. Ray's White Second  
 12 Illingworth R & M Phal. Illini Star x Carmela's Wonder Third

### D2 Phalaenopsis, Standard Type Predominantly Pink

- 18 Stewart M Dtps. Nobby's Pink Lady First  
 12 Illingworth R & M Phal. I-Hsia Cinderella Second  
 94 McCully P & JDtps. I-Hsia Pretty Third

### D3 Phalaenopsis, Standard Type Spots or Stripes & Any Other Colour

- 12 Illingworth R & M Phal. Chain Xen Super Idol 'CX246' First  
 94 McCully P & JDtps. Ackers Sweetie x Frushing Speckle Second  
 94 McCully P & JPhal. Makir x Aerus x Plable Third

### D4 Phalaenopsis, Non Standard Any other

- 94 McCully P & JPhal. Fullers Sunset x Saiv Spots First  
 94 McCully P & JPhal. Fullers Sunset Second  
 94 McCully P & JDtps. Sogo Manger 'Nina' Third

## Cymbidium

### E1 Cymbidium - any Colour - under 60mm

- 226 Haase K Cym. Len Southwood First  
 35 Buchanan J & P Cym. Mini Dream 'Homeleigh' Second  
 502 Hile G Cym. Pumisan 'Orange' Third

### E2 Cymbidium - any Colour - 60mm - 90mm

- 63 Pritchard T & B Cym. Gentle Touch 'Bon Bon' First

### E3 Cymbidium - any Colour - over 90mm

- 3 Scriven B Cym. Forest Place 'Royale' First

## Oncidiinae

### F1 Oncidiinae, Equitant/Tolumnia/Zelemania

- 212 Copley-Bishop J Tol. Irene Gleeson x Kayoter x Barbie First

### F2 Oncidiinae, Oncidium

- 18 Stewart M Onc. Unknown First

- 504 Howes A Onc. Sharry Baby 'Sweet Fragrance' Second

## F3 Oncidiinae, Intergenerics

- 184 McCallum P Colm. Wildcat 'Bobcat' First  
 212 Copley-Bishop J Zyg. Cynosure 'Blue Birds' Second  
 212 Copley-Bishop J Milt. Schoederiana x Mtdm. Hawaiian Sunset Third

## Dendrobium

### G1 Dendrobium, Eugenanthe - Predominantly White

- 94 McCully P & JDend. Yukidaruma 'Queen' First  
 94 McCully P & JDend. Yukidaruma 'King' Second  
 94 McCully P & JDend. Yukidaruma 'King' Third

### G2 Dendrobium, Eugenanthe - Predominantly Purple, Red

- 94 McCully P & JDen. Sunburst 'Tain' First  
 18 Stewart M Den. Snowflake x Konan x Sakura x Golden Secret Second  
 94 McCully P & JDen. Pink Doll Elegance Third

### G3 Dendrobium, Eugenanthe - Any Other Colour

- 94 McCully P & JDen. Papiyon x Yellow Ribbon x Bunny Girl First  
 18 Stewart M Den. Beautiful Egg x Golden Blossom 'Lemon Drop' Second  
 94 McCully P & JDen. Nambuhter 'Yellow Ribbon' x Yellow Ribbons Delight Third

### G4 Dendrobium, Any Other - 50mm and Under

- 41 Baxter L Den. Suree Classic First

### G5 Dendrobium, Any Other - Over 50mm

- 184 McCallum P Den. Maime First

## Any Other Genus

### J1 Any Other Genus Hybrid

- 35 Buchanan J & P Zygo. Adelaide Meadows 'Rebecca' First  
 226 Haase K Phrag. Noirmont Second  
 159 McKenzie J & I Coel. Janne Banks Third

## J2 Reed Stem Epidendrum

- 226 Haase K Epi. Crown of Fire 'Best Dark Red' First  
 13 Maggs G Epi. Topaz Rose 'Rosie' Second  
 127 Coppus M Epi. Topaz Special x Golden Valley 'Hildos' Third

## Australian Native orchids

### K1 Australian Native Orchids, Hybrid Predominantly White, Green & Yellow

- 171 Berry P Den. Robbie McInnes First  
 6 Cleal D Den. Huh Chu Second  
 501 Williams W Den. Jonesii x Tetragenum Third

### K2 Australian Native Orchids, Hybrid Predominantly Red, Pink & Purple/Splash

- 226 Haase K Den. Cam-Ranh First  
 226 Haase K Den. Burgundy Bride 'Claret Ice' Second  
 6 Cleal D Den. Ray's Spot x speciosum Third

### K3 Australian Native Orchids, Species - excluding class K4

- 128 Roulstone N & T Den. Linguiforme First  
 93 Mogg D Den. Linguiforme Second  
 6 Cleal D Den. Aemulum Third

### K4 Den. speciosum any other variety

- 226 Haase K Den. speciosum curvicaule 'Peninsula Princess' x speciosum grandiflorum 'Beranghi Gold' First  
 226 Haase K Den. speciosum (var grandiflorum x windermere) x windermere Second

- 171 Berry P Den. speciosum var. curvicaule Gloucester x speciosum Aurea

### K6 Den. speciosum Var. curvicaule

- 18 Stewart M Den. speciosum var. curvicaule 'Best' First  
 208 Kapernick G Den. speciosum 'Daylight Moon' x Second  
 6 Cleal D Den. speciosum 'Olga' x 'Daves Gold' Third

### K7 Den. speciosum Var. grandiflorum

- 6 Cleal D Den. speciosum grandiflora First  
 6 Cleal D Den. speciosum grandiflora Second  
 6 Cleal D Den. speciosum grandiflora Third

## Species

### L1 Species - Monopodial Exotic Excluding Class K3, N3 & P3

- 21 Tierney M Rhy. gigantea First  
 12 Illingworth R & M Angem. sesquipedale Second  
 13 Maggs G Rhy. gigantea x same Third

### L2 Species Symptodial Excluding Class B4, K3, N3 & P3

- 57 Cox G Rhyncholaelia glauca First  
 506 Chandler R Coel. Flacuida Second  
 501 Williams W Mediocalar decoratum Third

### L3 Dendrochilum

- 501 Williams W Dendrochilum Tenellum First  
 501 Williams W Den. Cobbyanum 'Golden Circle' Second  
 14 Kable B & A Den. glumaceum Third

## Group of Three Distinct Genera

### M1 Group of Three Distinct Genera

- 501 Williams W Group of Three First  
 94 McCully P & JGroup of Three Second

## Novice

### N1 Novice - LADOS Inc. Members Only, Cattleya Hybrid

- 252 Johnston J & D Brunswick Bonanza 'Tullamore' First  
 241 Jeffrey K Rlc. Brunswick Blush Coral Second

### N2 Novice - LADOS Inc. Members Only, Any Other Hybrid

- 241 Jeffrey K Mltsa. Olmec First  
 261 Simons J Bulb. Wilmar 'Gee Whiz' Second  
 227 Filia A & K Epi. Pacific Glory x Hukula x Gold Valley Third

### N3 Novice - LADOS Inc. Members Only, Species

- 259 Hocking R Rhy. gigantea First  
 259 Hocking R Den. Amiclium 'Brunswick' Second  
 227 Filia A & K Den. Gracilicaule Third

### N4 Novice - LADOS Inc. Members Only, Dendrobium Hybrid

- 261 Simons J Den. Yukidaruma First

259	Hocking R	Dock. Australian Freckles	Schoenina	Second	
	'Green Giant' x Black 'Pearl'				
272	Pincott M	Den. Fiji Sume x Oborosuki		Third	
<b>Intermediate</b>					
<b>P1</b>	<b>Intermediate - LADOS Inc. Members Only, Cattleya Hybrid</b>				
213	Lynch R & D	C. Kauai Starbright x B. perrinii		First	
227	Filia A & K	Bk. Maris Song		Second	
227	Filia A & K	Lctna. Thupin Thai		Third	
<b>P3</b>	<b>Intermediate - LADOS Inc. Members Only, Species</b>				
213	Lynch R & D	Den. Speciosum		First	
213	Lynch R & D	Epi. Tricolour		Second	
<b>Displays</b>					
<b>Q1</b>	<b>Displays - Orchid Societies</b>				
507	BOS	Display		First	
508	LADOS	Display		Second	
94	McCully P & J	Display		Third	
<b>Floral Art - Novice and Intermediate Section</b>					
<b>R1</b>	<b>Floral Art - Novice &amp; Intermediate Section Arrangement "Think Pink"</b>				
266	Watts W	Think Pink		First	
266	Watts W	Think Pink		Second	
233	Forman H	Think Pink		Third	
<b>R2</b>	<b>Floral Art - Novice Section, Corsage</b>				
266	Watts W	Corsage		First	
266	Watts W	Corsage		Second	
213	Lynch R & D	Corsage		Third	
<b>Floral Art - Open Section</b>					
<b>S1</b>	<b>Floral Art - Open Section Arrangement "Candle Magic"</b>				
128	Roulstone N & T	Candle Magic		First	
128	Roulstone N & T	Candle Magic		Second	
128	Roulstone N & T	Candle Magic		Third	
<b>S2</b>	<b>Floral Art - Open Section Corsage</b>				
19	Griffiths J	Corsage		First	
<b>Champion Placings</b>					
<b>Z1</b>	<b>Champion Orchid of Show</b>				
86	McCubbin J & M	Phal. Mem. Barbara Francis 'No2'		Champion Orchid of Show	
<b>Z2</b>	<b>Reserve Champion</b>				
18	Stewart M	Den. speciosum var curviale 'Best'		Reserve Champion	
<b>Z3</b>	<b>Champion Specimen of Show</b>				
18	Stewart M	Den. Speciosum var curviale 'Best'		Champion Specimen of Show	
<b>Z4</b>	<b>Champion Cattleya Hybrid</b>				
67	Zimmerman J & M	Blc. Mem. Gordon Valance 'Marg'		Champion Cattleya Hybrid	
<b>Z5</b>	<b>Champion Paphiopedilum Hybrid</b>				
86	McCubbin J & M	Phap. Mem. Barbara Francis 'No2'		Champion Paphiopedilum Hybrid	
<b>Z6</b>	<b>Champion Vandaceous Hybrid</b>				
35	Buchanan J & P	Rhy. Hirota x Rhy Gigantica		Champion Vandaceous Hybrid	
<b>Z7</b>	<b>Champion Phalaenopsis Hybrid</b>				
12	Illingworth R & M	Phal. Chian Xen Super Idol 'CX246'		Champion Phalaenopsis Hybrid	
<b>Z8</b>	<b>Champion Oncidiinae Hybrid</b>				
184	McCallum P	Colmanara Wildcat 'Bloodshot'		Champion Oncidiinae Hybrid	
<b>Z9</b>	<b>Champion Dendrobium Hybrid Excluding Class K</b>				
94	McCully P & J	Den. Yukidaruma 'Queen'		Champion Dendrobium Hybrid Excluding Class K	
<b>Z10</b>	<b>Champion Any Other Genus Hybrid - Class E &amp; J</b>				
226	Haase K	Epi. Crown of Fire 'Best Dark Red'		Champion Any Other Genus Hybrid - Class E & J	
<b>Z11</b>	<b>Champion Australian Native or Species</b>				
18	Stewart M	Den. Speciosum var. curviale 'Best'		Champion Australian Native or Species	
<b>Z12</b>	<b>Champion Species - Excluding Class K3 and K4</b>				
57	Cox G	Rhyncholaelia Glauca		Champion Species - Excluding Class K3 and K4	
<b>Z13</b>	<b>Champion Novice/Intermediate</b>				
259	Hocking R	Rhyn. Gigantica		Champion Novice/Intermediate	

Tweed District Orchid Society are holding their Annual Show and Fair on Sat./Sun. 5<sup>th</sup> & 6<sup>th</sup> November 2016 at the Tweed Heads Civic Centre cnr Wharf & Brett Sts, Tweed Heads NSW and will be open Sat. 8.30am-4.00pm and Sun./ 8.30am-2.00pm – Daylight Saving Time. There will be a large number of local and interstate orchid and specialist plant nurseries offering a large range of goods for sale. If any members are interested in taking a car pooling trip down to the Show/Fair we could discuss this at the October meeting.

## Phosphorus

By George Tsambourakis PhD

If there is an element that can be accused of being “short tempered” and with a “split personality” than Phosphorus is that element. Having a “split personality” means it has two radically different “faces”, the white and the red. Furthermore, because it is also “short tempered”, in plain English highly reactive and unstable, phosphorus does not exist as a free element on Planet Earth.

Let's have a closer look at each of the two faces separately. **The Good Phosphorus:**

**Fact:** All known forms of life need phosphorus. The good phosphorus is a “socialite”, a “party animal” and can be found everywhere where life exists. Phosphates, PO<sub>4</sub><sup>-3</sup> containing compounds, are found in DNA, RNA and ATP as well as in phospholipids, the main structural components of all cellular membranes. Calcium Phosphate salts assist in stiffening bones, and teeth and urine contains phosphorus. Phosphate is used by living cells to transport the energy required for every cellular process that uses energy.

Plants of course do not have bones or teeth. So, what do plants need Phosphorus for?

The answer is simple: Plants need Phosphorus to grow, flower and fruit.

1. It enhances the basic processes of photosynthesis.
2. It assists with the nitrogen fixation.
3. It assists (together with Potassium) with flowering.
4. It assists (together with Potassium) in fruiting, seed production and maturation.

It helps with root development and growth.

Some believe that the general uptake of nutrients by plants is: 20 parts of Nitrogen: 2 parts Phosphorus: 1 part Potassium. I dispute that. I believe the need depends upon age and maturity of the each plant, the seasons and weather conditions. Young plants need Nitrogen to grow, older plants need Phosphorus and Potassium to flower and seed.

It's difficult to recognize phosphorus deficiency in plants. Some people do see differences but I do not. Some claim that plants are stunted, older leaves change to darker green colour. Some claim that leaves may turn yellow or the stems and/or leafstalks turn purple. Other claims are that plants mature slowly and may not flower. I can't tell.

**Warning: Excess phosphorus can interfere with the uptake of copper and zinc.**

### **The bad Phosphorus:**

The white phosphorus allotrope is too dangerous for my liking and presents a hazard as it ignites in air and produces phosphoric acid residue. White phosphorus poisoning leads to necrosis of the jaw and ingestion of white phosphorus may cause the medical condition known as "Smoking Stool Syndrome". Organic phosphorus compounds form a wide group of materials, some of which are extremely toxic.

Fluorophosphates esters are among the most potent neurotoxins known to man.

When it comes to plants, a wide range of organophosphorus compounds are used as insecticides, fungicides etc. Some of the better known products are Dieldrin, Malathion, Parathion, Agri-Fos, Phostrol, ProPhyt, etc.

I consider Phosphorus compounds as very dangerous as it kills everything and does not discriminate. I always seek alternatives, perhaps the only one I have ever used is Malathion. Always handle Phosphorus containing products with care: Contact with skin must be avoided and wearing gloves is a must.