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FRONT COVER

The April issue is when we traditionally feature all the First Class Certificates (FCC) given in the prior calendar year and the special AOS annual awards. This last year saw 71 FCCs, a record number, throughout our system and they are featured in Carol Klonowski's article *Welcome to Our Worlds* (pages 276–285). Featured on the front cover is *Rhynchostylis gigantea* 'Crystelle Smith' FCC/AOS exhibited by Krull-Smith on December 14, 2019 at the Florida North-Central monthly judging in Clermont, Florida. Scoring 90 points, the plant carried 78 flowers on two arched inflorescences. Photograph by Wes Newton.

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A 501(c)(3) Nonprofit Organization Founded in 1921

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The mission of the American Orchid Society is to promote and support the passion for orchids through education, conservation and research

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The American Orchid Society provides leadership in orchids

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PRONUNCIATION GUIDE

Pronunciation of orchid names can be daunting for the novice and experienced grower alike. Presented below is a simplified pronunciation guide specific to the names found in this issue of *Orchids* magazine. An attempt has been made to represent each syllable using easily recognized sounds or words separated by hyphens and not standard phonetic symbols. Check out the Orchidist's Glossary on our website at <https://www.aos.org/orchids/orchidists-glossary.aspx>.

- acuminatissimum* (a-kew-min-a-TISS-ih-mum)
adductum (ad-DUK-tum)
Aerangis (air-RANG-iss)
Aeridovanda (air-id-oh-VAN-da)
alexandrae (al-leks-AN-dree)
Aluzia (a-LOOZ-ee-a)
amplexicaule (am-pleks-ih-KAW-lee)
Anacheilium (an-a-KYE-lee-um)
Angraecoid (an-GRAY-koid)
Angraecum (an-GRAY-kum)
anitum (a-NEE-tum)
armeniacum (ar-men-ee-AY-kum)
bellatulum (bell-AT-yew-lum)
bellina (bell-EE-na)
bicolor (BYE-kuhl-ur)
Bolusiella (boh-loo-see-EL-la)
Bonnieria (bon-nee-AIR-a)
borneense (bor-nee-EN-see)
Brassavola (brass-AH-vol-lah)
Brassidium (brass-ID-ee-um)
Brassidomesa (brass-id-oh-MEE-za)
Brassocatanthe (brass-oh-kat-AN-thee)
braybonae (BRAY-bone-ee)
Bulbophyllum (bulb-oh-FILL-lum)
calceolus (kal-see-OH-luss)
Catasetinae (kat-a-SET-ih-nee)
Catasetum (kat-a-SEE-tum)
catilligera (kat-a-LIJ-er-a)
Cattleya (KAT-lee-a)
centipeda (sen-tih-PEE-da)
Cheirorchis (kye-RORE-kiss)
citrata (sih-TRAY-ta)
cochleata (koh-klee-AY-ta)
Cochlopetalum (kok-loh-PET-a-lum)
Cordiglottis (kor-dih-GLOT-tiss)
corrugata (kor-roo-GAY-ta)
Coryopetalum (kor-ee-oh-PET-a-lum)
crispum (KRIS-pum)
cultriforme (kul-tree-FORE-mee)
Cylindrochilus (sil-in-droh-KYE-luss)
Cymbidium (sim-BID-ee-um)
dactyloceras (dak-till-loh-SER-as)
Dendrobium (den-DROH-bee-um)
Dendrocolla (den-droh-KOL-la)
Dichaea (dye-KEE-ah)
didieri (did-ee-AIR-ee)
Dinema (dye-NEE-ma)
distichum (DISS-tih-kum)
distincta (dih-STINK-ta)
dolosa (do-LOH-sa)
Dracula (DRAK-yew-la)
Draculalia (drak-yew-VAL-ee-a)
eburneum (ee-BURN-ee-um)
echinata (ek-in-AY-ta)
elephantinum (el-eh-fan-TEE-num)
Encyclia (en-SIK-lee-a)
Epidendrum (ep-ih-DEN-drum)
Epithecia (ep-ih-THEE-see-a)
germinyanum (ger-min-ee-AY-num)
gigantifolium (jye-gan-tih-FOL-lee-um)
giryamae (gear-ee-A-mee)
glandulosa (gland-yew-LOH-sa)
glauca (GLAW-ka)
glaucophyllum (glaw-ko-FILL-lum)
Gomesa (GOH-meez-a)
Gongora (gone-GORE-a)
Guarianthe (war-ee-AN-thee)
Habenaria (hab-ih-NARE-ee-a)
hainanensis (hye-nan-EN-sis)
hairiotiana (hair-ee-ot-ee-AY-na)
hildebrandtii (hil-deh-BRANT-ee-eye)
Hormidium (hore-MID-ee-um)
lanceola (lan-see-OH-la)
lasioglossa (lass-ee-oh-GLOS-sa)
lawrenceae (law-REN-see or LAW-ren-see)
Lesueurara (les-sur-AR-a)
liemianum (leem-ee-AY-num)
lilacinus (lye-la-SEE-nus)
livida (LIV-ih-da)
loddigesii (lod-ih-GEEZ-ee-eye)
luteoalba (loo-tee-oh-AL-ba)
Lycaste (lye-KASS-tee)
Masdevallia (mas-deh-VAIL-ee-a)
Microterangis (mye-kroh-ter-ANG-iss)
Miltoniopsis (mil-tone-ee-OP-sis)
Modesta (moh-DESS-ta)
moniliforme (mon-il-ee-FORE-me)
Myrmecocattleya (mir-meh-koh-KAT-lee-a)
Myrmecophila (mir-meh-KOF-ill-a)
Mystacidium (mih-sta-SID-ee-um)
notabilis (no-TAB-ih-liss)
Odontoglossum (oh-don-toh-GLOS-sum)
Oeoniella (ee-ohNEE-ell-la)
Oncidium (on-SID-ee-um)
Ophrys (OFF-riss)
Orsidice (ore-SID-ih-see)
Osmophytum (oz-moh-FYE-tum)
Paphiopedilum (paff-ee-oh-PED-ih-lum)
Parvisepalum (par-vih-SEE-pal-lum)
Phaedrosanthus (fay-droh-SAN-thus)
Phalaenopsis (fail-en-OP-sis)
philippinense (fill-lih-pin-EN-see)
pleurothallid (plur-oh-THAL-lid)
Podangis (poh-DANG-iss)
polystachys (pol-ee-STAK-iss)
Prosthechea (pros-THEK-ee-a)
Prosthesis (pros-THEE-see-a)
remotiflorum (ree-moh-tee-FLORE-um)
rhodosticta (roh-doh-STIK-tah)
Ridleya (RID-lee-a)
roezlii (ROZE-lee-eye)
rothschildianum (roths-child-ee-AY-num)
sanderianum (san-der-ee-AY-num)
Sarcochilus (sar-koh-KYE-luss)
Schomburgkia (shom-BURG-kee-a)
sesquipedale (ses-kwi-peh-DAY-lee)
somalensis (soh-mal-EN-sis)
speciosum (spee-see-OH-sum)
Specklinia (spek-LIN-ee-a)
speculum (SPEK-yew-lum)
splendida (SPLEN-dee-dah)
Stanhopea (stan-HOPE-a)
stonei (STONE-ee- or STONE-eye)
strobilii (stroh-BELL-ee-eye)
tessellata (tess-ell-LAY-ta)
tetraspis (teh-TRASP-iss)
Thrixspermum (thriks-SPER-mum)
Thylacis (THYE-lass-iss)
tibicinis (tib-ih-SIN-iss)
 trianae (TREE-an-ee)
Vanda (VAN-da)
violacea (vye-oh-LAY-see-a)
walkeriana (walk-er-ee-AY-na)
warszewiczii (var-schuh-VITZ-ee-eye)
wilhelminae (vil-hel-MEEN-ee)

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The American Orchid Society SPRING MEMBERS MEETING

Hosted by the California - Sierra Nevada Judging Center

20/20 Vision of Orchids Show and Sale

April 15 - 19, 2020

**DUE TO CORONAVIRUS CONCERNS,
THE SPRING AOS MEETING
HAS BEEN POSTPONED.
AT PRESS TIME, A NEW DATE HAS
NOT BEEN DETERMINED.
AS SOON AS POSSIBLE, WE WILL
NOTIFY THE MEMBERSHIP
OF THE DETAILS.
PROXY CARDS SUBMITTED REMAIN
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PRESIDENT'S MESSAGE

WITH ORCHID SOCIETY meetings and shows being canceled due to COVID-19, you can still get your monthly orchid fix by watching our archived webinars. For the vendors you were going to purchase plants from at shows, please order plants by phone or their website. And last (or maybe it should be first) spend more time enjoying the orchids you have. Orchids will get us through the self-quarantine most of us are going through. Stay safe.

As I start to write my last President's Message to you, I am sitting in my room at the Tokyo Dome Hotel. I am representing the American Orchid Society as your President and head of the judges for the 2020 Japan Grand Prix International Orchid and Flower show (JGP). This show takes place on the field of the Tokyo Dome, where the Tokyo Giants play baseball. The entire infield and outfield are either covered in displays, individual flowers, or vendors. Because there are so many judges attending this show, judging is usually completed within 3 hours.

This year's Grand Prix winner was *Paphiopedilum* Tsukuba Sweet 'Hisashi' and with that win, the exhibitor received the keys to a brand-new Mercedes Benz. The American Orchid Society trophy for best cultivation of a Japanese native orchid went to *Dendrobium moniliforme* 'Yashiro', a beautiful plant with lots of flowers. My favorite exhibit was created by the Ena Agricultural Senior High School; as you can see, it had a lot of beautifully arranged orchids. Another display that caught my eye was a heart-shaped exhibit — the show opened on Valentine's Day.

Because this was the JGP's 30th anniversary, the Emperor and Empress of Japan attended the opening ceremonies. I was part of the entourage that walked the show with them as they viewed the exhibits and the Grand Prix winner. It was exciting, but the best part was that I was actually introduced to them an hour later!

It was fun seeing the friends I made last year and making new friends this year. I was so well cared for that it was hard to say goodbye to Tokyo!

A few days after I got home from Japan, I was on my way to Florida for the United State Postal Service's unveiling ceremony for 10 new native orchid stamps. The ceremony was just so much fun and I was so grateful to participate in this event. The ceremony lasted about 45 minutes and after that people were able to purchase the stamps (first day issuance) and have them canceled by the post office on site. I was one of the participants who



SUSAN WEDEGAERTNER



SUSAN WEDEGAERTNER



SUSAN WEDEGAERTNER



SUSAN WEDEGAERTNER

- [1–2] Displays at the JGP are often enormous and always stunning. The roof of the hut in Figure 2 is composed of hundreds of blooming dendrochilum plants.
- [3] The 2020 AOS trophy winner for the best example of a Japanese native species — *Dendrobium moniliforme* 'Yashiro'.
- [3] The 2020 JGP Grand Champion *Paphiopedilum* Tsukuba Sweet 'Hisashi'
- [5] AOS President, Susan Wedegaertner, speaking at the USPS stamp reveal ceremony.



NAYA MARCANO



WES NEWTON

Left to right: Jim Fowler, nature photographer; Jacqueline Krage Strako, Chief Customer and Marketing Officer and Executive Vice President, USPS; Noah Celic and Kimberly Lampidis, vocalists from the Gulliver Schools; U.S. Representative Donna Shalala, 27th Congressional District; Dr. Lawrence W. Zetter, Director of the Orchid Recovery Program, Illinois College; Susan Wedegaertner, AOS President.

autographed the program. The line was long and people had more than one item for us to sign. I think my right hand is just now recovering from all of the signing!

My last trip as President of AOS would have been to Taiwan, where I would have represented the membership at the Taiwan International Orchid Show (TIOS) and also the World Orchid Conference (WOC). Unfortunately, I was notified four days before leaving that both shows have been postponed because of the coronavirus outbreak and will be rescheduled for later in 2020.

Until next time, happy growing!
 — Susan Wedegaertner, AOS President
 (email susan@aos.org).

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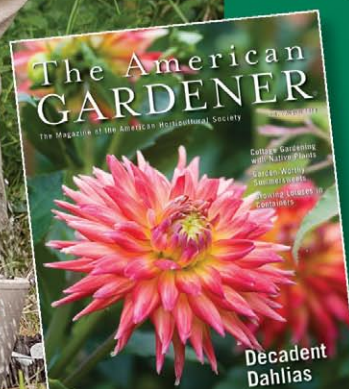
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April: The Month of Mindfulness

By Thomas Mirenda

AMONG THE MANY things we see deteriorating in our world and its present state of affairs is a loss of civility. Now, some would say that civility is just a façade that only thinly veils contemptuous feelings under the surface. It could be argued that it is better to confront those feelings openly and clear the air and I would agree. I think that is a basic truth. However, it is the way in which we confront our disagreements that is the problem. Is it ever constructive to insult and humiliate someone you disagree with? Has anyone ever won a debate this way? Well, clearly some have, and this is the problem. A willfulness to hurt others is at the center of our societal ills. We and our children are being exposed to this lack of empathy daily, hourly, constantly.



Thomas Mirenda

I think many of us in the orchid world are better than that. Mindful that our fellow growers are wildly diverse in their backgrounds, ideals and beliefs, orchidists cross barriers of culture, ethnicity, socioeconomics, politics and religion to engage with and learn from each other. The beauty of our avocation is that it does not matter what divides us. It is the love of beauty, art and nature that allows us to celebrate with an exceptionally diverse group of individuals in the world of orchids, people who might not otherwise cross our paths. As my friends and I prepare for the World Orchid Conference (which has been tragically postponed due to fears about contagion) I was so looking forward to the opportunity to make new friends and enthusiastically share the joyful things that bring us together as an orchid community, mindful of the fact that love, beauty and kindness will always triumph over the darker impulses of our species. I still hope to do so when the WOC is rescheduled later this year.

POSITIVITY Now that spring has sprung in the Northern Hemisphere, there is much to do. The Earth has awakened and bedecked herself in color and fragrance. It is just about impossible to be negative amidst such a bounty of beauty. Many of your winter blooming orchids, phalaenopsis, cymbidiums and dendrobiums are still spectacular in your

greenhouse or windowsill, though as the days lengthen and temperatures rise the winter-blooming genera are starting to give way to the next wave of beauties such as miltoniopsis, cattleyas and vandas. Just like orchid people, orchids themselves bring us remarkable diversity and new joys with each passing season.

COGNITION Mental action is crucial as orchids come out of dormancy. It is so important to learn about the various species and hybrids in your collection. We often will acquire a plant because its flowers are pretty or we are fascinated by its strange loveliness and it is OK to experiment with new plants. But we must also try to avoid plants that we are not equipped to maintain. That can be sad and wasteful. If you really love your plants, why choose one that is doomed to failure? Make sure you can supply conditions necessary for the long-term health of your orchids. If you love cool growing orchids but live in the hottest part of the country, it is still possible to have your dream plants. But chances are you will have to invest in some cooling equipment.

MANUAL DEXTERITY For most orchids, repotting season begins this month and you will likely be standing at the potting bench for long periods of time using your hands. This is the most intimate time you will spend with your plants. As you repot, take the time to look over each and every plant for its condition. Is it a nice healthy color? Are there parasites hidden under the leaves or sheaths? Are there any growth anomalies that might be signs of fungal or viral pathogens? This inspection that should be done as you repot might reveal a lot of things that will dictate your culture through the growing season. Make sure plants you are repotting have begun their spring growths and have at least 1-inch (2.5-cm) long root systems. Avoid reusing pots, especially from plants that may have died or gone backwards, as there are surely problems that will spread as you do. All of your plants will appreciate fresh potting mix as they enter a period of rapid growth this month.

FLUID THOUGHTS With the onset of warmer weather and increased photoperiod, most orchids will appreciate more frequent water and fertilizer. In April,



SERGEY SKOROPAD

it is still mostly cool weather and orchids will often grow really well as they have yet to experience the stresses of summer heat. Use this period as an opportunity to get plants well established and a chance to get a good start on producing pseudobulbs and other food storage organs to support their next season of bloom. In many ways, what you are mindful of now will affect and set the course of your growing for the entire year.

DO NOT FORGET! Your gardens and nearby natural areas are also awakening. It is very likely that wild orchids are emerging and blooming this month! Make a trip with friends to find these natural marvels. It will create memories that will sustain you when the dog days of summer and winter doldrums return.

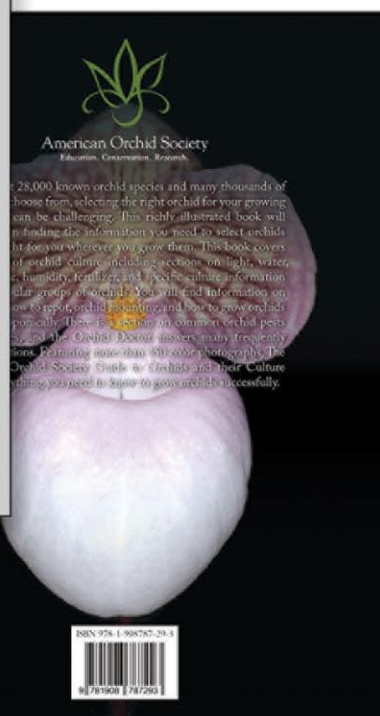
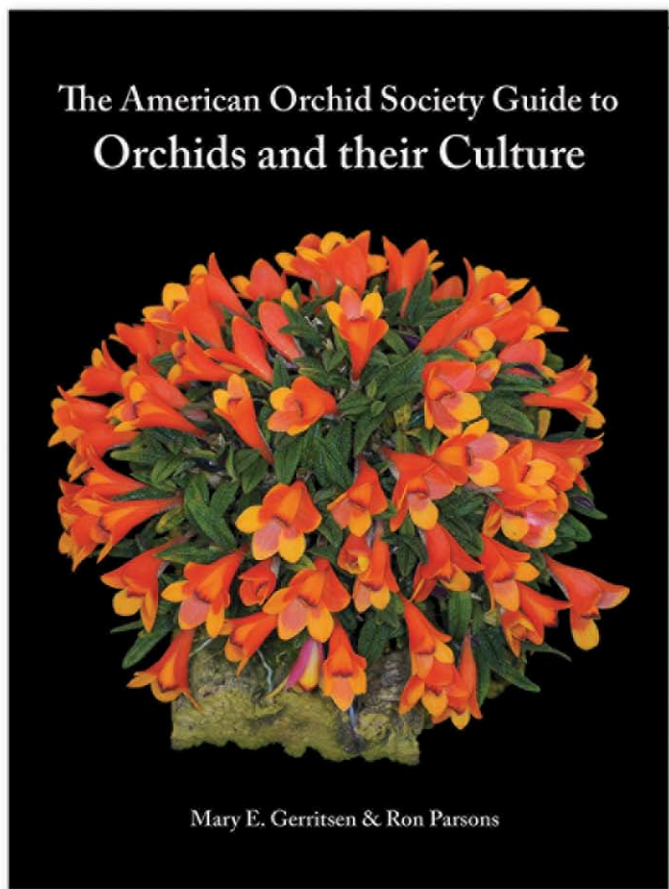
— Thomas Mirenda has been working professionally with orchids for over three decades. He is an AOS accredited judge and is the chairman of the American Orchid Society's Conservation Committee (email: biophiliak@gmail.com).

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Repotting Through the year

Text by Sue Bottom/Photographs by Terry Bottom

JUST LIKE OUR garden plants, orchids struggle with transplant shock after repotting. Simply removing a plant from the pot disrupts the root system, so you cut away the older and tired part of the plant and give the roots a haircut, compounding the root damage. Sometimes the potting mix has broken down causing the entire root system to rot.



Sue Bottom

The best time to repot your orchid is when it is just beginning to grow new roots. Sometimes you can see a swelling on the stem or pseudobulb and know the roots will emerge within days. This is the time to repot. The new roots will grow rapidly into the fresh mix and the plant will re-establish itself quickly with a minimum of transplant shock. If you do not follow this rule, the plant can become dehydrated because the damaged root system cannot absorb water and nutrients very effectively.

The repotting marathon begins in January, when the winter-dormant varieties begin to wake from their slumber. The *Catasetinae* have blooming seasons from summer through winter, depending on the genus. The summer-blooming varieties are the first to initiate new growth after dormancy, while the fall- and winter-blooming varieties can lag months behind. As you see the beginning of new growth, it is time to repot them, a chore to be undertaken every year or every other year, depending on your potting medium. Repot before the new, tender roots form. The new growth will show you how to orient the pseudobulb in the pot, and let the roots grow into the fresh medium. You will find yourself repotting different varieties into April, particularly the winter-blooming *Clowesias* and their hybrids.

February is good time to repot your other winter-dormant orchids, such as *habenarias*. The top growth has all died and the tuber at the base of the pot is ready for some fresh medium. James Heilig has some good suggestions: pot them a little low in the pot at first. After the first whorl of leaves unfurl, top the pot off with some more medium so the stem will be supported by another ¼ inch (6 mm) or so of potting mix. Consider



inserting a bamboo skewer in the pot so you will have something to stake the flower stem to later in the year (without puncturing the tuber).

February is also the time to repot your summer blooming *phalaenopsis*, if they need repotting. This will give them a chance to recover from transplant shock and be established by the time the summer blooming season rolls around.

March and April are prime repotting season for many genera, including many *cattleyas* that initiate root growth at the same time as they initiate new growths. The *unifoliate*s are much more forgiving

[1] Repotted *catasetums* are hung in a protected area until the new roots and growths are 3–5 inches (7.5–12.5 cm) long.

[2] Wait for the top growth to appear before watering *habenarias*. You can spritz the top of the moss to encourage them to break dormancy.

of repotting at the wrong time, while this can be fatal for *bifoliate*s. Some *cattleyas* start growing new roots when the new pseudobulbs are growing, and others finish growing their pseudobulbs and then rest a bit before the new roots emerge.

Bill Rogerson's excellent article on orchid species culture contains a tabulation of when each cattleya species starts rooting, a great resource for the cattleya grower.

March and April are also a great time to rebasket or rehang vandas that have become unruly. They begin growing their new rootlets with the onset of warm weather so they can quickly adjust to their new homes.

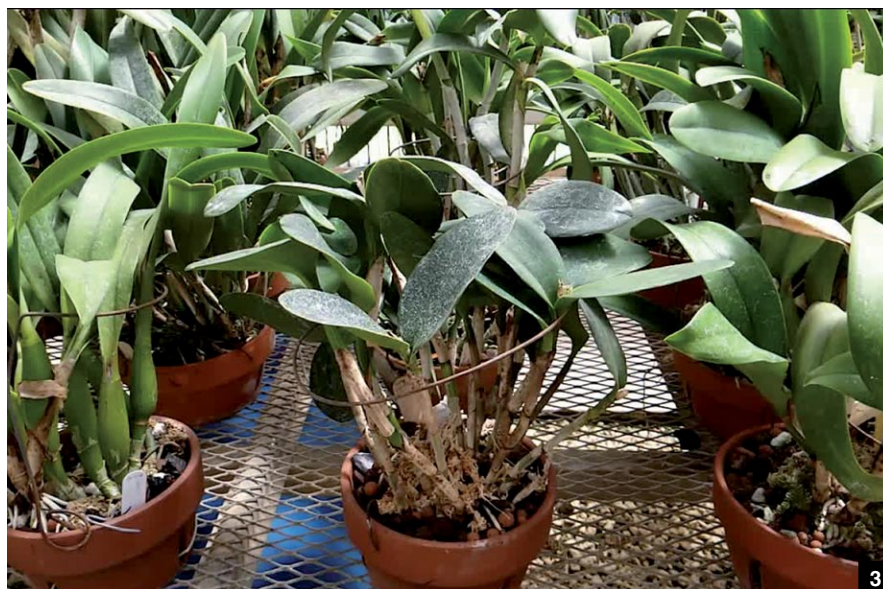
Dendrobiums, as a rule, resent repotting. The canes grow very close together, so they should be potted in a seemingly too small pot. Measure the distance between canes to estimate the annual growth rate, and select a pot that will accommodate the plant for four years or so. A low organic-content potting mix should be used so you will not be forced to repot them because of a rotting mix. Often you will find you can just drop the pot in a larger pot or slip-pot (remove from the original pot but without root disturbance) them into a slightly larger pot with a minimum of root disruption.

By the end of May, the bulk of your repotting should be complete. The main exception to this rule is your spring blooming phalaenopsis that are still flowering and your bifoliate cattleyas that have not yet started growing roots.

Many phalaenopsis growers cut off the inflorescences after Memorial Day and dedicate June to repotting all their plants. This gives the plants a little time to get their roots reestablished before the extreme heat of summer starts. The spring blooming phalaenopsis should all be in their new pots once Independence Day rolls around.

As with many genera, it is often recommended to rebasket stanhopeas in the spring after new growth begins, just prior to the initiation of new roots. If you miss this window, or if you are concerned about damaging developing inflorescences you can rebasket after they have finished blooming in the summer to early fall. They will have enough time to get reestablished before their winter rest season. Put stanhopeas in wire baskets with a shallow layer of sphagnum moss. If the moss has started to degrade, you can often water-jet away the decaying moss and insert fresh moss without doing too much damage to the roots.

July and August are dangerous months for repotting. The water molds thrive in the heat and humidity and easily gain entrance into your plants through the wounds incurred during the repotting process. Unfortunately, bifoliate cattleyas often grow new roots in July and August,



so you may have to repot them during this period. Extreme caution should be used. After you clean your plants, let them dry before cutting them. Dust wounds with dry Banrot powder. Do not water after repotting, let the wounds seal over for a week or two before watering.

In mid-September, the heat and humidity moderate, and orchids respond with a growth spurt. You will start seeing green root tips, so you know any last minute repotting can be done during this brief window. If you start seeing new green root tips on your bifoliate cattleyas, this may be a good time to repot them. Spraying rooting hormones, such as Dip 'n Gro or seaweed extracts, on the roots may give them some extra encouragement so the plant can be reestablished before the winter rest season.

By the end of October, most of your orchids are responding to the cooler

[3] Cattleyas are so much happier after repotting. The ugly growths have been removed and plenty of spacing provided between plants for this year's growth.

[4] Drop your bifoliate cattleyas in an empty clay pot and wait for the new roots to emerge. It is then safe to repot, as the new roots will quickly reestablish the plant.

temperatures, shortening day length and lower sun angle by slowing their growth. Some simply rest during the winter months, while others go into full dormancy. Avoid repotting during the November and December months.

SUMMARY Spring is the main repotting season as this is when many genera are actively growing new leads and roots. Repotting during the hot summer months is problematic. The plants are

struggling with the heat, pots dry more slowly with the high humidity, and this wetness increases disease pressure. If you must repot, be sure to keep the plant on the dry side for a week or two so the repotting wounds can seal off. Early fall is your last chance for repotting, when the temperature and humidity abates and you get a second growth spurt during which you will see new green root tips. Although some cooler growing genera relish the winter months, most of your orchids will be resting if not in a deep sleep so repotting should be delayed until spring.

— Sue Bottom started growing orchids in Houston in the mid-1990s after her husband Terry built her first greenhouse. They settled into St. Augustine, Florida, Sue with her orchids and Terry with his camera and are active in the St. Augustine Orchid Society, maintaining the society's website and publishing its monthly newsletter. Sue is also a member of the AOS Editorial Board (sbottom15@gmail.com).



[5] Enjoy your long-blooming spring phalaenopsis. Be prepared to cut the inflorescences and repot them so they can reestablish before the hot humid weather of summer.

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I USE SEEDLING starter trays with humidity domes in the fall and spring for my vegetables. It did not occur to me to use them in the greenhouse for my orchids but when I deflasked my first orchid seedlings a couple of months ago, I needed a place, protected from the elements, to put the fragile seedlings. I keep a small amount of water in the tray and the humidity dome on top with both vents open. It sits on a shelf in my Arizona greenhouse in the southeast corner. After the first month, my seedlings doubled in size (the seedlings are pictured in the larger containers). So, I decided to move a few of my more fragile orchid divisions into the tray to see if I could encourage strength and growth. After another month, I noticed new growth and better color on the leaves (the divisions are pictured in the smaller pots).

I feed them every other week with MSU high-potassium fertilizer. Once a week, I leave the lid off for several hours just to increase the airflow and prevent mold or fungi from growing. If you grow indoors, this would be a great place for orchids needing higher humidity or those that are more fragile. We often get small



divisions or purchase orchids in 2-inch (5-cm) pots because they are cheaper. This tray and dome will keep them protected as they grow. It fits well under a counter and you can even mount a grow light under the counter if you are growing in a more shaded

environment. These seedling starter trays with humidity domes cost under \$10. Be sure to get the heavy weight tray so that it will not collapse when moved.

— Cindy Jepsen (email: cindyjepsen@cox.net).

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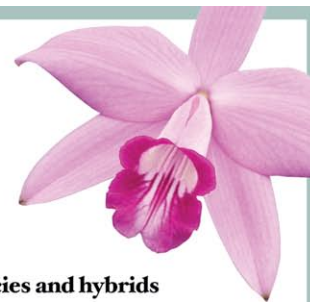


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ORCHIDS OF THE WORLD

Into Africa, Part 4

Text by Thomas Mirenda

Miniature Angraecoids



WHEN MOZART PENNED his delightful and beloved *Eine Kleine Nachtmusik*, it is safe to say that the miniature angraecoids of Africa were far from his mind. Indeed, probably no one in 1787 Vienna, save the most intrepid of world travelers, had likely seen one. Yet, this perfectly constructed piece evokes vivid images of the dance between tiny insects and perfectly adapted flowers that occurs nightly in Tropical Africa. While there is still much to discover about these symbiotic relationships, virtually all of these species with their pale colors, nectar spurs and nighttime fragrances are being courted by night flying insects to the soundtrack of a chorus of crickets, the babbling of streams and the rustling of leaves and branches in the riparian woodlands where most of these miniature plants thrive.



Thomas Miranda

Primarily twig epiphytes, these miniatures often grow at the edges of streams where there is likely to be greater shade, higher humidity, excellent air movement and ubiquitous water,

all clues to their successful cultivation. These monopodial orchids are related to the better-known vandaceous orchids and often look superficially like a vanda in the case of *Angraecum* and *Oeoniella*, and phalaenopsis in the case of *Aerangis* and *Mystacidium*. All these variations on a theme are reflective of the incredible diversity of insect life and orchids' ability to adapt to and utilize the needs and behaviors of specific insects to their own ends.

Angraecum, a large genus of greater than 200 species with some of the most compelling subjects for cultivation, including the world famous *Angraecum sesquipedale* of Darwinian fame. But for the species grower, some of the miniature angraecums are equally compelling, often making up for their diminutive size with greater floriferousness, novelty of habit or proportionally enormous flowers. *Angraecum distichum*, widely distributed throughout much of Central Africa, distinguishes itself with its tightly imbricating, triangular and glossy leaves from which flushes of fragrant crystalline blooms regularly erupt in profusion. Its clumping, branching and root-forming habits allow this plant to be easily propagated. Other worthy miniatures in this genus include the creeping *Angraecum cultriforme*, *Angraecum germinyanum* and the amazing *Angraecum didieri* and *Angraecum elephantinum*, both with



2



3

remarkably large flowers in proportion to their plant sizes.

No discussion of such plants would be complete without mentioning the genus *Aerangis*. More resembling the familiar *Phalaenopsis* than *Angraecum*, these floriferous epiphytes dazzle with their interesting birds-in-flight shapes and some unusual colors. Perhaps the most famous and popular species is *Aerangis luteoalba* var. *rhodosticta*, notable for its brilliant red column, a feature that seems to be genetically dominant when used in hybrids. This column color implies that *Aerangis rhodosticta* may have evolved to attract a diurnal pollinator because red is virtually invisible in the dark. Another

- [1] *Aerangis somalensis* ranges from Ethiopia and Somalia to southern Africa. The clone 'Mitchell Park Domes', CHM/AOS, is shown. Grower: Mitchell Park Horticultural. Photograph by Arnold Klehm.
- [2] *Podangis dactyloceras* is unique among angraecoids with its foot-shaped spur complete with "toes" and its corymbose inflorescence. Pictured is 'Janet Kaye' AM-CCM/AOS. Grower: Dennis and Janet Wade.
- [3] *Aerangis luteoalba* var. *rhodosticta* 'Fishing Creek', AM/AOS, with its brilliant red column, may be one of the few angraecoids with a daytime pollinator. Grower: Stephen and Geraldine Male.

What a Difference One Year Can Make



Mystacidium braybonae 'Marcella' (above) received a CCM/AOS of 85 points in May 2003, and then a year later the award was upgraded to a CCM/AOS of 86 points (right). Grower: Lenny Zieff. Photographs by Charles Marden Fitch





MAURICE MARIETTI



LARRY LIVINGSTON



KARL SIEGLER

such example is *Aerangis citrata*, a lovely species that is readily available due to great success at seed propagation. If you look closely at the center of these flowers, you will often see a violet “flash,” probably of a wavelength of light outside the capacity of humans to see clearly. But clearly, it is visible to its pollinator, which, again, is likely to be diurnal. Other *Aerangis* species such as *Aerangis modesta*, *Aerangis distincta* and *Aerangis splendida*, often show pink and mauve in addition to having proportionally enormous flowers for their plant size.

In contrast, not all aerangis have proportionally large flowers. Long classified as belonging to the genus *Microterangis*, two species, *Aerangis harioitiana* and *Aerangis hildebrandtii* have brilliant orange or yellow flowers that are exceedingly small. Easily grown into beautiful multigrowth specimens, these are two of the more readily available species in cultivation.

Other interesting miniature angraecoids include *Bonnieria*, whose flowers lack a spur (indicating it may not cater to a long-tongued insect) and the delightful genera *Bolusiella* and *Mystacidium* with flowers

so perfect and tiny as to defy description, are all captivating horticultural subjects.

The lovely *Oeoniella polystachys*, with its trumpet lip and deliciously fragrant blossoms, should be more widely cultivated, as should the widespread and easily grown genus *Podangis*. *Podangis dactyloceras* (one of only two species in the genus) is highly recommended, with its unusual corymbose inflorescence of delicate melting snowflake-like flowers, each with a contrasting bright-green anther cap.

All of these variations on the angraecoid theme are elegant and fascinating additions to the species and the miniature lover’s collection. Actually, these are but a small sampling of yet another fascinating world within the universe of orchids.

— *Thomas Mirenda has been working professionally with orchids for over three decades. He is an AOS accredited judge and is the chairman of the American Orchid Society’s Conservation Committee (email: biophiliak@gmail.com).*

[4] *Angraecum distichum* is easily propagated and blooms frequently throughout the year. Pictured is ‘Valley Isle’ AM/AOS. Grower: Exotic Orchids of Maui.

[5] *Aerangis harioitiana* ‘Waterford’, CCE/AOS, can be grown into an exceptional specimen. Grower: Bayard Saraduke. Close-up inset photograph by Lourens Grobler

[6] The brilliant orange flowers of *Aerangis hildebrandtii* peek from under glossy phalaenopsis-like leaves. Grower: The Denver Botanic Garden.

[7] *Bonnieria corrugata* ‘Zia Los Ranchos’, CBR/AOS, differs from most other angraecoids by its lack of a nectar spur. Grower: Daniel Dolan.



Sylvia strigari

Prosthechea cochleata

Text by Noelia Belfort-Oconitrillo and Franco Pupulin/Watercolor by Sylvia Strigari

Subfamily Epidendroideae

Subtribe Laeliinae

Genus *Prosthechea* Knowles and Westc.

Prosthechea cochleata (L.) W.E.Higgins, *Phytologia* 82(5):377. 1997[1998]. Basionym: *Epidendrum cochleatum* L., *Species Plantarum, Editio Secunda* 2:1351. 1763. Type: Haiti. Plumier s.n. [lectotype, designated by Garay and Sweet (1974), the original illustration by Plumier in *Codex Boerhaavianus* (P) reproduced in Plumier, *Pl. Amer.* t.185(2). 1759]. Synonyms: *Anacheilium cochleatum* (L.) Hoffmanns., *Verzeichniss der Orchideen* 21–22. 1842. *Auliza* (as *Aulizeum*) *cochleatum* (L.) Lindl. ex Stein, *Orchid.-Buch* 1892, *nom. inval.* *Phaedrosanthus cochleatus* (L.) Kuntze, *Lex. Gen. Phan.* 429. 1902[1903]. *Encyclia cochleata* (L.) Dressler, *Brittonia* 13(3):264. 1961. *Hormidium cochleatum* (L.) Brieger, *Die Orchideen* 3(Aufl. 1):569. 1977.

Epiphytic, erect plant up to 30 cm tall. Roots slender, flexuous, 2.0–21.5 cm in length, to about 2 mm in diameter. Pseudobulbs elliptic to fusiform, heteroblastic, fleshy, compressed, 2.0–15 × 0.8–2.9 cm, apically provided with two leaves. Leaves suberect, subcoriaceous, elliptic-lanceolate, acuminate, 19.5–23.1 × 0.7–4.8 cm. Inflorescence terminal, elongate, erect, with 8–15 simultaneous flowers; peduncle cylindrical, glabrous, green, 15.0–16.5 cm long, provided with a brown bract with entire margin, lanceolate when expanded, 2.5–6.4 × 0.9–2.3 cm. Flowers elegant, nonresupinate, sepals and petals reflexed and twisted, projecting downward, pale green sometimes with a few spread purple spots at the base; labellum cockshell-shaped, with dark purple veins; floral bract acuminate, 0.4–0.6 × 2 mm, green but turning brown when senescent; pedicel cylindrical, green; ovary green, 0.9–1.1 × 1.0–1.3 cm. Dorsal sepal lanceolate, acuminate, frequently twisted, pale green, 2.9–3.2 × 3–4 cm. Lateral sepals lanceolate, acuminate, pale green, 3.0–3.2 × 2.0–5.5 cm. Petals lanceolate, acuminate, 2.3–2.5 × 2–4 cm, pale green, sometimes with scattered purple spots at the base. Lip cordate-triangular, deeply concave, acute, 1.0–1.2 × 1.8–2.0 cm; white at the base with seven dark purple veins, suffused with yellowish green from the middle toward the apex; with a

high, basal, subrectangular, white callus, 4–6 × 2.1 cm. Pedicellate ovary, glabrous, green. Column semiterete, pale green at the base with dark purple stains, white from the middle to the apical portion, apically provided with three prominent, fleshy teeth, appendage white with purple stain, long as the lateral teeth. Anther cap broadly ovate, truncate, deeply cucullate, four-celled, yellow-orange with the cells edges white. Pollinia four, compact, elliptic, laterally flattened, pale yellow. Fruits three-winged in cross section.

Prosthechea has a complicated taxonomic history with most of the species presently included in the genus plagued by a long list of synonyms, and still today encompassing several groups that are morphologically quite distinct and have received (albeit not widely accepted) taxonomic recognition.

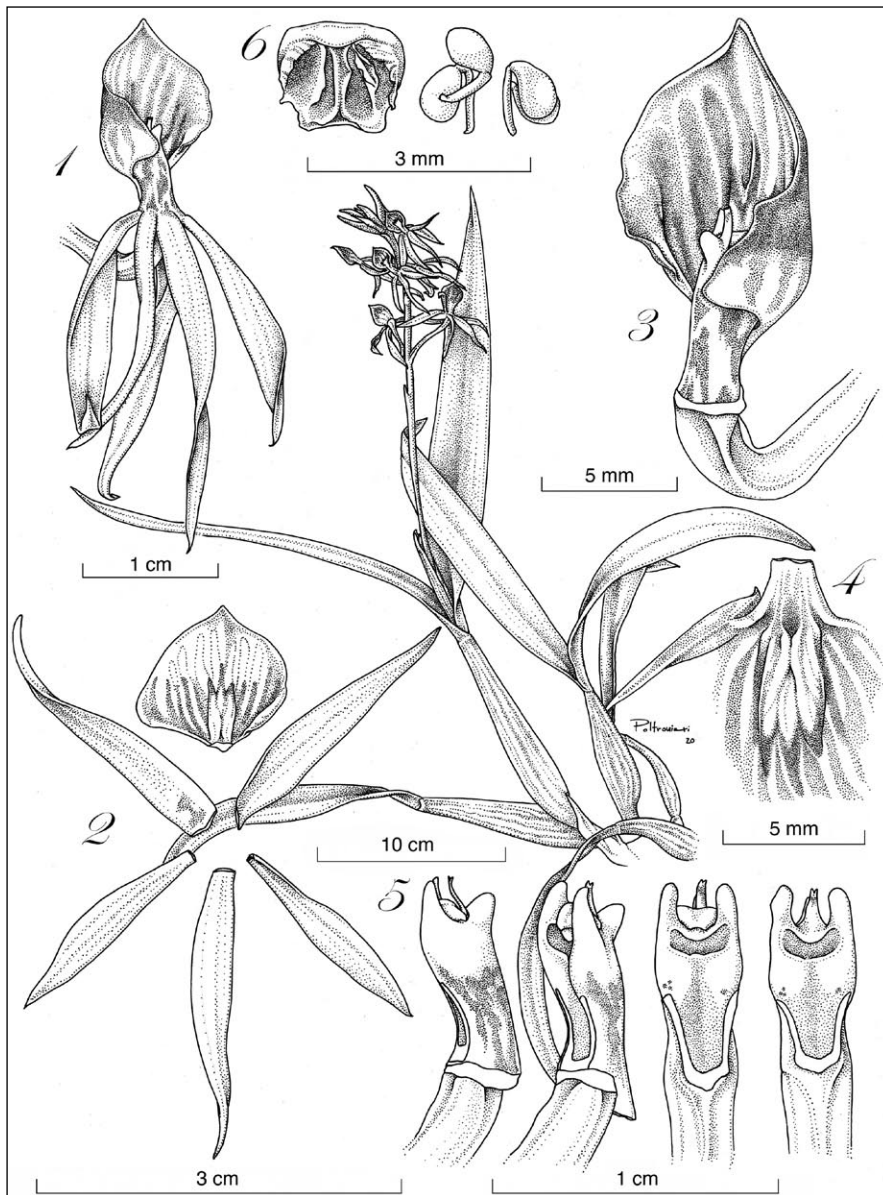
The generic name *Prosthechea* was derived from the Greek *prostheke*, meaning appendix, in reference to the appendage on the back of the column of the type species, *Prosthechea glauca*, described in 1838 by George Beauchamp Knowles and Frederic Westcott based on “a very delicate but not showy plant” imported from Mexico by George Barker (Knowles and Westcott 1838). A fact that has contributed a lot to the confusing taxonomic history of the genus *Prosthechea* was that Knowles and Westcott (1839) themselves changed the generic name to *Epithecia*, because they found that the name *Prosthechea* was too similar in sound, and had the same origin, to a previously described genus. Even though the authors did not specify to which genus they referred, Wesley Higgins (1997) interpreted it as likely the genus *Prosthesia* Blume in the Violaceae. According to Knowles and Westcott, *Prosthechea* was closely related to *Epidendrum*, but could be differentiated by the structure of the column and labellum, and in the dorsal position of the anther. However, John Lindley (1840) stated that the genus could not be generically separated from *Epidendrum*, and combined the type species of *Prosthechea* in *Epidendrum* as *Epidendrum glaucum*, an invalid homonym of *Epi. glaucum* Sw. (= *Dichaea*), described in 1788 from Jamaica.

In 1828 William Jackson Hooker established the genus *Encyclia* when

he described *Encyclia viridifolia*. After Hooker’s generic proposal, a vast and blurry taxonomical history took place concerning the generic concepts of *Epidendrum* and *Encyclia*. Robert Dressler (1961) attempted to reduce the scope of the genus *Epidendrum* by reconsidering *Encyclia*, and proposed using the adnation of the column and lip as the key feature to separate them (complete adnation only found in *Epidendrum*, and partial adnation in *Encyclia*), together with the position and shape of the rostellum after removal of the pollinia (clef rostellum in *Epidendrum* and entire rostellum in *Encyclia*). He described two sections to circumscribe *Encyclia*: *Encyclia* sect. *Encyclia* (with cylindrical capsule in cross section) and *Encyclia* sect. *Osmophytum* (three-winged fruits) (Dressler 1961). In 1971, Dressler and Pollard revised *Encyclia* again and recognized six sections and three subgenera: subgen. *Osmophytum* (including *E. glauca*), *Encyclia* and *Dinema*. Pabst and collaborators, in 1981, transferred two taxa of *Encyclia* sect. *Hormidium* (Lindl.) Dressler and G.E. Pollard (1971) to the genus *Hormidium*, established in 1841 by Gustav Heynhold based on Lindley’s *Epidendrum* subgen. *Hormidium*; the same authors also transferred 22 species of *Encyclia* sect. *Osmophytum* to *Anacheilium* Rchb. ex Hoffmanns (Higgins et al. 2003).

In 1997, Higgins performed a cladistic analysis based on the morphological characteristics of the three subgenera of *Encyclia*, and based on his results he reconsidered *Prosthechea* by raising *Encyclia* subgenus *Osmophytum* to the generic level. Since *Prosthechea glauca* was included in this taxon, and given that *Prosthechea* and *Prosthesia* are not homonyms — and therefore *Epithecia* is a *nomen illegitimum* for a taxon previously described validly, from a nomenclatural point of view, *Prosthechea* (1838) is the generic name that has priority over *Epithecia* (1839), *Hormidium* (1841), and *Anacheilium* (1842) (Higgins 1997). If those groups deserve taxonomic recognition at the generic rank with a proper name is still debatable, but this debate obviously goes beyond the scope of this series of papers.

Linnaeus described *Epidendrum cochleatum* on the basis of a plant



Prosthechea cochleata. The plant.

1. Flower.
2. Dissected perianth.
3. Column and lip, three quarters view.
4. Callus of the lip.
5. Column, several views.
6. Anther cap and pollinaria.

All drawn from *Karremans 5694* by Sara Díaz Poltronieri.

illustrated by Plumier, as generically coming from America (Linnaeus 1763). In 1974 Leslie A. Garay and Herman R. Sweet lectotypified the species with the illustration of Plumier's specimen; originally collected in Haiti. In 1842, Johann Centurius von Hoffmannsegg transferred *Epi. cochleatum* to *Anacheilium cochleatum*, establishing *Anacheilium*. After Higgins' (1997) reconsideration of *Prosthechea*, it is currently accepted as a member of this genus.

Broadly distributed from Florida, though the Central American isthmus, to Colombia, Venezuela and the Guyanas, as well as in the Antilles, *Psh. cochleata* is the national flower of Belize, where it is known as the black orchid due to the dark purple color of the lip. Other common names include the clamshell orchid and cockleshell orchid. Plants of *Psh. cochleata* are mainly epiphytic on trunks and large

branches of their host, but also grow lithophytically on volcanic, serpentine, and limestone rocks and terrestrially in thick litters, and populations have been recorded from sea level to about 1,500 m in elevation.

Even though Ortiz-Barney and Ackermann (1999) showed that genetic variation of *Psh. cochleata* is locally very low, the species is florally amply variable through its distribution range; so much so that four varieties have been formally described. One of these is a mutant with the column provided with two additional anthers that allow pollen tubes to bypass the rostellum, resulting in self-pollination (Higgins 2005). Triandrous forms of the species are known from Florida and Puerto Rico and have been treated as var. *triandra*. However, as triandry may have arisen several times from different stocks, or the different triandrous populations may have diverged from a triandrous common ancestor, the varietal name *triandra* does not address this ambiguity and should be restricted to typical Florida populations (Ackermann 2014).

In Central America, *Psh. cochleata* was used as a source of mucilage, and the species is widely cultivated for its long-lasting and unique flowers that look like elegant dancers.

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Selected Botanical Terms

abaxial - lower surface of a leaf
 acuminate - tapered to a point
 acute - pointed
 adaxial - upper surface of a leaf
 adnate - fused
 caespitose - clumped
 carinate - having a keel-like ridge
 clavate - club-shaped
 cochleate - like a spiral shell
 concave - curved inward like the interior of a bowl
 cordate - heart-shaped
 coriaceous - leathery
 crenulate - having a finely scalloped or notched edge
 cucullate - hooded
 elliptic - oval
 emarginate - having a notched margin or tip
 epiphyte - growing on another plant for support and not as a parasite
 falcate - sickle-shaped
 filiform - threadlike
 fusiform - spindle-shaped
 glabrous - free of hair or down; smooth
 heteroblastic - Growing several forms or type of leaves along a shoot depending on age or shoot length

laminar - flat
 lanceolate - narrow oval tapering to a point at each end
 nonresupinate - not rotated to present the lip lowermost; lip uppermost
 oblanceolate - narrow at attachment, rounded apically
 obovate - egg-shaped with the wide end up
 obtuse - blunt or rounded
 ovate - egg-shaped with the narrow end up
 papillose - covered with small protuberances, like a cat's tongue
 pedicel - a stem carrying a single flower
 peduncle - the lower part of the inflorescence below the first bud
 pleuridia - multibranching structures
 plicate - pleated
 pollinarium - structure that is attached to the insect during pollination
 quadrate - four-angled
 recurved - bent or curled backward
 reflexed - bent backward
 resupinate - rotated to bring the lip lowermost
 revolute - rolled backward or inward
 rhizome - horizontal stem
 rhombic - diamond-shaped

rostellar - relating to the portion of an orchid column separating the male and female features
 scarious - dry and membranous
 senescent - growing old
 sigmoid - S-shaped
 spatulate - having a broad, rounded end; spoon-shaped
 staminode - sterile or abortive stamen; in Cyripedioidea, the flat structure that covers the two fertile anthers
 stipe - a small stalk
 sub - prefix meaning nearly or almost as in subpyriform - almost pear-shaped
 sympatric - found growing together; habitats that overlap
 terete - cylindrical or pencil-shaped
 triandrous - having three anthers
 truncate - abruptly terminated as if cut off
 type - specimens on which a description is based
 viscidous - the sticky pad on the caudicle or stipe of the pollinarium that attaches the pollinarium to a pollinator

Guidelines for Judging

By Bill Thoms/photographs by Tom Kuligowski

THERE ARE TWO main goals when given a plant or exhibit to judge. The first and foremost is to evaluate either one objectively and thoroughly; the second is to give the students and associate judges on the team a chance to show their knowledge.

The evaluation of the plant consists of consideration of any award for which it is eligible and leaving any prejudice or bias at home. While a different genus may be your first love, all genera should be considered equally and judged as such. Also, avoid falling into the trap of "Quality, Culture or Recognition" as the only possibilities to consider. There are several other awards that can and should be considered based on their criteria (Certificate of Horticultural Merit, Judges' Commendation, Award of Distinction and Award of Quality). Also, with respect to exhibits, keep the Silver, Gold and Artistic Certificates in mind.

The practice of having the most learned members of the team speak first denies the accredited judges on the team learning what knowledge the nonaccredited members have before they hear from the more knowledgeable. It is hoped that new judges are intelligent and observant, so it is to be expected that they would pick up on attributes and deficiencies of the plant provided by the other team members.

Likewise, when judging exhibits, the same would hold true. The difference is that form, color and other characteristics are replaced with the criteria for arrangement, quality, variety and labeling. Have the student describe his or her impressions of these individually and as a whole. After this, the other judges (going up in experience) should give their opinion. The last judge to speak should be the most knowledgeable on the subject. This way, the other members of the team will have the benefit of his or her experience without being prejudiced.

As team captain, your job is to make sure the positive things are covered and the negative things are avoided. Here is a good way to accomplish that:

When you first receive the plant (or stand in front of an exhibit), state clearly the name of the plant (if registered) and its parents, (or conversely, the class



of the exhibit and its size). If the plant does not have obvious deformities or fatal problems, then it must be looked at under lights that are as close to daylight as possible or out in the sun. After all, how can you possibly evaluate a plant properly without knowing what it really looks like? The team then looks at previous awards, if any, or awards to the parents, if any. After briefly discussing these awards, you ask the most novice member on the team what his or her thoughts are. It can be asked

- [1] A team of judges lead by Robert Fuchs (far right, front row) examines an exquisite display of miniatures. Note the magnifying glass included by the exhibitor to aide viewing these beauties.
- [2] Judith Bailey, seated far right, leads a team of judges and clerks researching a plant pulled for AOS judging.
- [3] Team captains at a recent Florida show. Left to right: Lou Lodyga, Carol Holdren, Judith Bailey and Robert Fuchs.

Team Captains

in this manner: "Please state the plant's best qualities, its worst qualities and whether you would nominate the plant for scoring." This requires the student to show how observant and knowledgeable he or she is.

If it is decided to score the plant, score sheets for the appropriate award(s) are obtained and you advise the team which scale to use. If there is any doubt, use the general scale (multifloral paphiopedilums need this, for example). After scoring, determine if the scores are within a six-point range. If they are not, discussion among the judges is warranted. Quite often, having those with the highest and lowest scores state why they scored the way they did will help them and the others to consider further. Simply stating, "I just do not think it is good enough" is a poor substitute for critical thinking based on a definite quality or lack of one. The sheets are then handed back and scored again. If they are still outside the six-point spread, the plant is passed and given to another team, who can ask the first team what issues were raised.

If the range is within six points, carefully add the scores and calculate the average. Some judges feel that coming within one- or two-tenths of a point of an award is grounds for further discussion and I agree. If a plant is that close to an award, the consensus of the team should be considered and the score adjusted to reflect this. I feel that the judges are entitled to adjust their scores in light of new information. Some judges feel that once the plant has been scored the second time, that result is final. Both approaches are valid.

Now comes the description part. Writing descriptions is probably the most important part of awarding a plant. Photos do not always come out as well as intended. Leaving the description writing to a novice is a horrible injustice to the exhibitor and to future judging teams. The description should be a team effort. The more one practices, the better one gets. When given a skeleton of the description by other members of the team, judges can suggest pertinent additions or changes to create a more accurate final product. Do not simply describe "what color is where." The form

of the flower is as just as important, if not more, than the color and should not be omitted. Is it star-shaped, cupped or spiraled? Are there hairs and how dense? Are the segments broad, blunt or pointed?

You can quickly see that making students be last (or not asked at all), and then sending them off to a corner to write a description all alone is the worst thing possible to the evaluation of both the student and the plant and must be avoided. Getting input from the more experienced members of the team is beneficial to the growth of any judge.

While part of the team writes the description, two others take the measurements. After the information is copied onto the official sheet or typed into the pdf form, carefully read all the information before listing the award and point score (if applicable). Then sign your name and become responsible for the end product. Remember, no matter who writes the description, both the team captain and the center chair or chair of judging at a show should correct (if necessary) and approve the final product before it is given to the exhibitor (if hand written) or printed from a pdf file.

At the end, ask the nonaccredited judge(s) or observers if they have any questions about the process. This will help the team to evaluate themselves or clarify possible future misunderstandings. Additionally, be prepared to explain to the owner why a plant was passed and not awarded.

— Bill Thoms is a former AOS accredited judge in the Florida-North



Central center and a prior AOS National Training Coordinator. He is perhaps best known for his growing and hybridizing expertise in *bulbophyllums*, 1605 Palace Court, Valrico, Florida 33594 (email: dukesthoms@verizon.net).

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Thrixspermum by Peggy Alrich and Wesley Higgins

Asia to the Western Pacific and Northern Australia



Loureiro

Flora cochinchinensis, 2:516 and 519 (1790).

ETYMOLOGY From the Greek for hair (*thrix*) and seed (*sperma*). Descriptive of the plant's hair-like seeds.

GENERITYPE *Thrixspermum centipede* Loureiro

SYNONYMS *Dendrocolla* Blume, *Bijdr. Fl. Ned. Ind.*, 286 (1825), *Orsidice* Rchb.f., *Bonplandia* (Hannover), 2:93 (1854), *Cylindrochilus* Thwaites, *Enum. Pl. Zeyl.*, 307 (1861), *Ridleya* (Hook.f.) Pfitzer, *Nat. Pflanzenfam., Nachtr.*, 2:16 (1900), *Cordiglottis* J.J.Sm., *Bull. Jard. Bot. Buitenzorg, sér. 3*, 5:95 (1922), *Cheirorchis* Carr, *Gard. Bull. Straits Settlem.*, 7:40 (1932), *Thylacis* Gagnep., *Bull. Mus. Natl. Hist. Nat.*, sér. 2, 4:599 (1932).

One hundred ninety-one monopodial epiphytes, lithophytes or accidental terrestrial species are widespread in low to middle elevation, peaty swamps, hill scrub, along roadside embankments, rocky crevices, savannas and wet montane evergreen to deciduous forests from southern China (Guangxi to Zhejiang), eastern India, Sri Lanka, Myanmar to Vietnam, Malaysia, the Philippines, New Guinea, northern Australia (Queensland) and the southwestern Pacific Archipelago

to the center of development in Indonesia. Most species grow in lowland or tropical rainforests up to 4,000 ft (1,200 m) elevation.

The species have vast vegetative and floral variations within this genus. These upright or hanging, small, vigorously ascending plants have long or short branching stems, or are miniature twig plants with usually well-spaced, flattened, sometimes fleshy and thick leaves. The solitary or paired, flattened or densely spiral, numerous to few-flowered inflorescences have spidery or rounded, white, pale lilac to pale yellow ephemeral flowers (often turning dark yellow as they age) that are rather large, have a pleasant fragrance (or are without fragrance) and open one by one in succession. The flowers appear either side-by-side or facing in all directions. A sudden change in temperature will initiate flowering of most of the species. The sac-like, immobile, white, spotted purple or orange, trilobed lip, rigidly attached to column foot, has a small spur. The lip has erect side lobes, a thick midlobe with a partly hairy callus or with a few or one thickenings at various locations. The flowers have a short, erect, stout, winged or usually wingless column. Pollinia four, waxy, appear as two unequal,

hard compressed masses attached by common short, broad stipes to a solitary, small viscidium.

Recent DNA studies show that *Thrixspermum* is sister to *Dimorphorchis* (Topik et al. 2005). The morphological synapomorphy of this clade is a longitudinal prominence on the disk. However, the monophyly of *Thrixspermum* is only weakly supported in this highly variable genus (Zou et al. 2015).

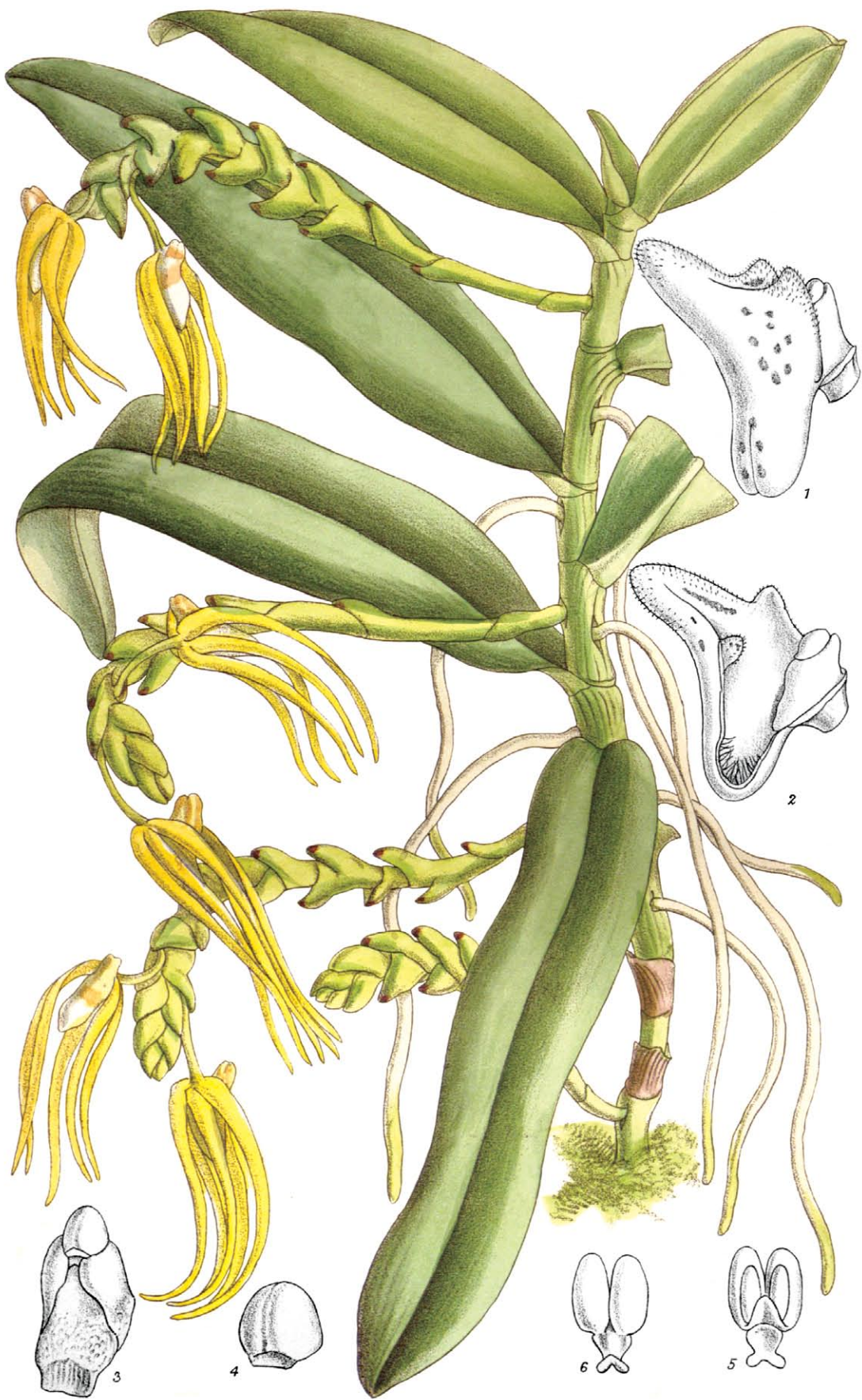
CULTURE Mount these plants on cork bark or a rough wooden slab. Provide moderate shade, humid conditions, light shade and water throughout the year.

— Peggy Alrich is a freelance graphic designer (sunflowerltd@earthlink.net).

— Wesley Higgins is an AOS accredited judge (wesley.higgins@comcast.net).

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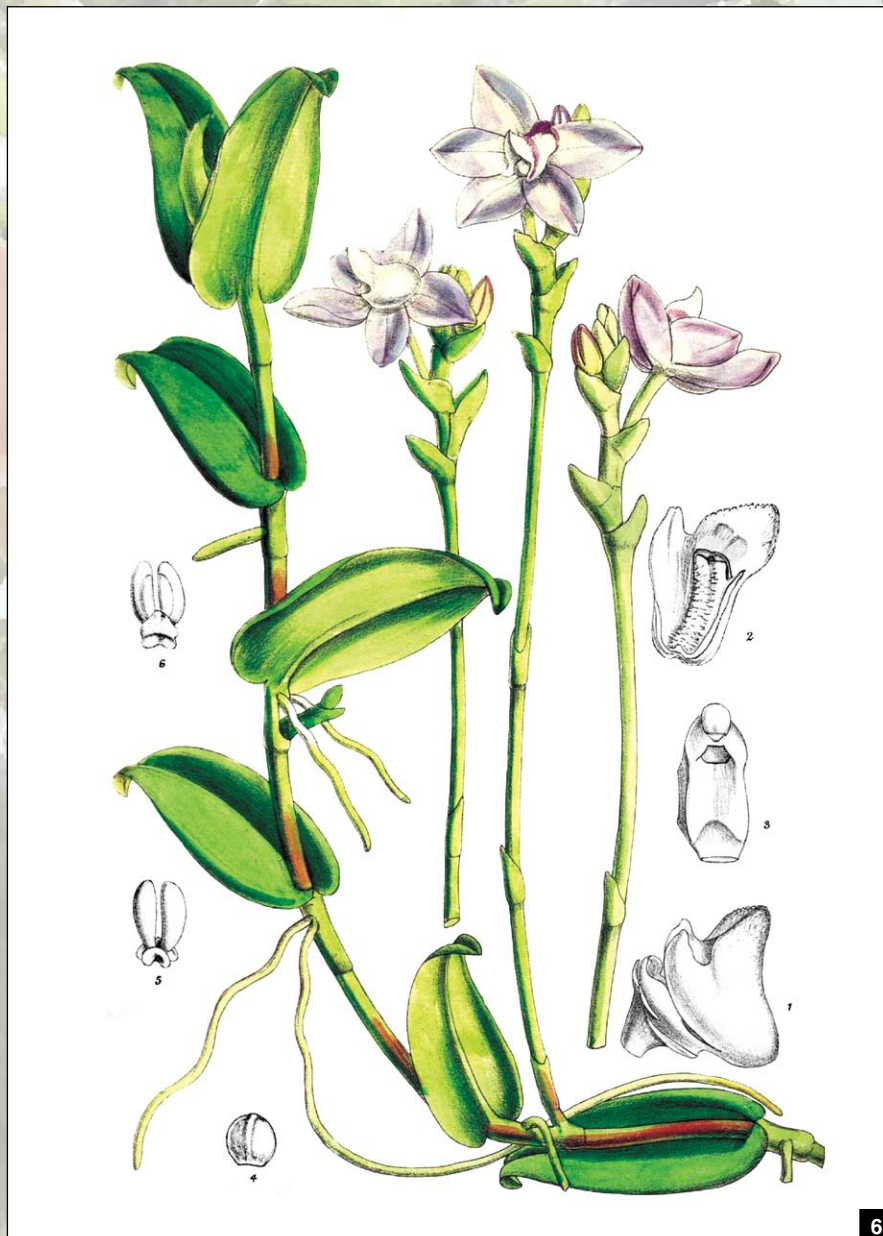
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6

Antique Plates: *Thrixspermum*

- [1] *Thrixspermum calceolus* as *Sarcochilus calceolus*. *Botanical Register*, 32:t.19 (1846).
- [2] *Thrixspermum centipede* as *Sarcochilus hainanensis*. *Botanical Magazine*, 122:t.7489 (1896).
- [3] *Thrixspermum remotiflorum*. *Icones Bogoriensis*, 3:t.220 (1906).
- [4] *Thrixspermum borneense* as *Sarcochilus borneensis*. *L'illustration Horticole*, 39:t.161 (1892).
- [5] *Thrixspermum acuminatissimum* as *Sarcochilus notabilis*. *Hooker's Icones Plantarum*, 22:t.2126 (1894).
- [6] *Thrixspermum amplexicaule* as *Sarcochilus lilacinus*. *Botanical Magazine*, 127:t.7754 (1901).

Judging Exhibits

Although the original author of this article, taken from Training Resources by Bill Thoms and Gary Kraus - 2008, is unknown its salient information is still valuable to judges and exhibitors alike. It has been updated to reflect the current AOS *Handbook on Judging*.

This Gold Certificate winning display, executed by Ventura Farms at the 2016 Santa Barbara International Orchid Show covered 1250 sq ft (116 sq m) providing vistas from all angles. Photograph by Arthur Pinkers



WHAT SHOULD BE the ribbon judging standard versus the Show Trophy standard? The *Handbook on Judging* is explicit about standards for the Show Trophy and Silver and Gold Certificates. Ribbon judging of exhibits (and flowers) is generally ignored by the *Handbook*. In practice, these are judged only partially against a perceived aesthetic standard and mainly in terms of comparison with the other exhibits or plants within their respective classes.



Most of the questions about Show Trophy judging relate to what is meant by arrangement (design), quality and variety. The *Handbook for Judging* specifies 35, 35 and 20 points for these elements respectively (with 10 points for labeling) and gives guidance as to their meaning in Sections 7.4, 7.1 and 7.3.3(3), respectively. The following are some of the unsettled questions about these elements:

QUALITY How does the quality of a

well-grown and fully adult plant compare to a young plant, which clearly has higher flower quality (is a so-so blooming of an FCC clone better or worse than a fine blooming of a clone of average quality)? Does the standard for quality vary between genera relative to the availability of superior and awarded clones (does an AM/AOS cattleya clone contribute more to the overall quality pointing than a superior but nonawardable [for quality] *Eria* species, even though awarded

cattleya types are quite available and few *erias* have flower quality awards)?

How do clearly inferior plants affect the overall pointing of quality (does a plant of inferior quality detract from overall quality as much or more than a plant of superior quality adds to overall quality; does a small or poorly grown plant of a superior clone detract from having average quality flowers, far beneath potential)?

What is typical Show Trophy quality



1

— quality that would point at least 28 (80%) of the 35 points — in terms of the presence of award quality, superior quality and inferior plants? What differences from this standard are commensurate with pointing an exhibit 24 or 30 points, roughly 10% poorer or better?

ARRANGEMENT Does the term “general arrangement” (design) refer largely to the arrangement of flowering orchid plants for effect or can it apply equally to the arrangement of the

accessories when the plants lack the flower size necessary to contribute to the overall effect, such as in a miniature exhibit? In practice, the weight given to tasteful reflection of the show theme appears to vary from no weight to being a major consideration. What portion of the 35 arrangement points should the reflection of the show theme have?

The other aspects of an arrangement are more intangible, including such concepts as masses of color, color-and-

[1] Another Gold Certificate winner, executed by the Western North Carolina Orchid Society at the 2017 Western North Carolina Orchid Society Show, beckoned the vista through a stone gateway arch. Photograph by Julie McMillan.



ROBERT HESSE



JEFFREY NEWMAN



JEA SHANG PHOTOGRAPHY



CURTIS GEAN

shape contrast, lines and movement, focal points and rest areas for the eye. There are also more specific faults like the flowers of one plant obscuring those of another. Plants that may later be scored for quality awards should not be “stuck” in a dark corner at the back of an exhibit. But how are these concepts related in terms of arriving at a point score for arrangement? Are positive points added or are points deducted for faults? Are the aspects considered individually or is there only a general impression possible? Most critically, how can the arrangement of a typical 28-point Show Trophy exhibit be characterized? What differences would make a 10% difference and lead to a 25 or 31 point score?

To what extent does the attractiveness of the background and major accessories



JORGE ENRIQUE CÉSPEDES TRIGUEROS

enter into the pointing of arrangement? Could an exhibit with a poor burlap background and no accessories score 35, or even 30, points for arrangement? On the other hand, is there not some maximum contribution which the background and accessories can make to the score for arrangement lest flowering orchid plants be superfluous? Do the accessories detract or distract from the orchids being the focal point? Or do they enhance it?

VARIETY Variety has several dimensions. There may be a balance between hybrids and species and a balance between genera. There is also the degree to which uncommon species and hybrids are present — plants that have not been seen more than once or twice before. Again, there is the question of what the expectancy for variety is for a Show Trophy exhibit. If an exhibit is almost entirely species or hybrids, is there a maximum potential score obtainable for variety? Of course there is. Of the 35 or so plants, how many genera being present constitute good variety? What might be an appropriate variety score for a one-genus, or a few-genera, exhibit?



- [2] Not all award winning displays have to be massive as this 9 sq ft (0.8 sq m) display by Andy's Orchids at the 2017 Massachusetts Orchid Society Show illustrates. The combination of expert placement and impeccable culture is spectacular.
- [3] Newman's Nursery garnered a Gold Cer-

tificate at the 2016 Hilo Orchid Society Show for this nearly 600 sq ft (55.7 sq m) display presented in the round.

- [4] Variety does not always mean number of genera as this strictly Phalaenopsis Silver Certificate winner from the 2017 Taiwan International Orchid Show demonstrates. Entered by Queen Garden Orchids, the display is tabletop mini-garden.
- [5] This 90 sq ft (8.4 sq m) floor display garnered an 87 point Silver Certificate for Tom Pickford at the 2017 Tropical Plant Society of Modesto Show.
- [6] This single-genus display features multiple color forms of *Guarianthe skinneri*, the national flower of Costa Rica. The display was the central exhibit garden of the 2017 Asociacion Costarricense de Orquideologia Show.
- [7] Well-executed displays need not require large numbers of plants. This two-level, walk-around display by the Windsor Orchid Society covered approximately 4.6 feet by 8.2 feet (1.4 m x 2.5 m) and stood about 8 feet (2.5 m) tall. Twenty plants provided plenty of variety, color and texture.

Writing Display Descriptions

THIS ARTICLE PROVIDES the framework for thinking about judging exhibits. It could make a wonderful education roundtable discussion at judging along with a discussion or practice on how to write descriptions.

Along with the increasing importance and awareness of exhibit awards, writing descriptions sometimes leaves judges flummoxed as the emphasis was always on writing flower or plant awards. The following are a few suggested guidelines and a possible format to help you with this task.

Display descriptions, like those for quality or cultural awards, should paint an image in words of the display including size and design, the quality and variety of plants, why the display was striking enough to be awarded, and if it also received a second display award (e.g., Show Trophy plus Gold Certificate). Specific parameters include the following:

1. Measure size (including height) in metric units, and include estimated number of plants, shape and type of display (floor, tabletop, round, simulating a tree, etc.).
2. Describe elements of design, including the focal point, color flow, rhythm in layout and balance and use of foliage plants and props to enhance the design or add height or interest, in specific terms (yellow and gold orchids flow through the exhibit in a semivertical S-curve and accent a large, red, specimen-sized cattleya).
3. Note exceptional plants in terms of quality (including awards), specimen plants, unusual species, etc.: name the significant ones in terms of enriching the display where possible.
4. Specify variety in genera, species or hybrids; size; color; etc.
5. If there is a show theme, does it tie into it and how?
6. Is the labeling clear and distinct, can it be read without climbing a ladder or entering a restricted area of the display? Correct spelling and currently accepted names?
7. Note additional awards and the award number to the display such as a Show Trophy, Silver Certificate, etc.

Do not capitalize plural genera or where a genus is used as a collective as in "a display of cymbidiums and miltoniopsis." Words such as "well-presented" (would not have received the award otherwise!), "well-balanced," etc. should be replaced by a description of the presentation, balance, color flow, etc.

— Jean Allen-Ikeson is the National Judging Education Coordinator (email jean.ikeson@gmail.com).

Simply First Class

The 2019 First Class Certificates

BY CAROL KLONOWSKI



THE ARTIST GEORGIA O’Keefe once said “when you take a flower into your hand and really look at it, it’s your world for the moment.” American Orchid Society judges might feel the same way when a truly exceptional plant is brought to their table, drawing them into a world of mesmerizing beauty.

Judges explore that world by evaluating a flower for form and conformation: fullness, flatness and balance between the flower segments. Is the color clear with no breaks, and are any markings distinct? The overall habit, floriferousness and substance and texture of the flower also contribute to the judges’ score. Size is only 10 percent of the total score on the AOS scoresheet, but invariably carries an impact beyond its proportion. It does, after all, define the size of the world at which you are looking.

Each judge on a team assigns a point score to these floral features to arrive at their score for the flower’s quality. The average of the team’s scores need to total above 89.5 points or higher on a scale of 100 to receive a First Class Certificate, the AOS’ highest flower quality award.

There were 67 FCCs awarded in 2019, an almost 30 percent increase over the previous year. About half of these were granted during local judging center monthly meetings; the rest were brought in for exhibit at the many shows, speaker’s days and symposiums held throughout the year. This is a great reason to explore the next orchid event near you, especially if you live near Krull-Smith in Apopka, Florida. This exhibitor alone received 14 FCCs last year.

By genus, paphiopedilums led the way with 19 awards, 10 of which are crosses or species of *Paphiopedilum rothschildianum*. Advances in line breeding are producing results in this important slipper orchid parent improving flower count, color and faster growth.

The highest point score for 2019, 95 points, went to two different paphiopedilums entered at the National Capitol Judging Center’s Paphiopedilum Forum. The first, *Paphiopedilum* Mount Toro ‘Snow Peak’ (*stonei* × *philippinense*), was commended not only for its stately floral display, but also for the “highest flower count per inflorescence for all awards in recent years.” The plant had 12 flowers on two, 28-inch (71-cm) inflorescences and was exhibited by Jeff Morris.

The second, *Paphiopedilum* Pacific Glory ‘Dreammaker’ (Pacific Shamrock × Green Glory), by contrast, was a single-



BRYAN RAMSAY

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ARTHUR PINKERS

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BRYAN RAMSAY

4



KATIE PAYEUR

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- [1] *Paphiopedilum* Edna Francis ‘New Vision’ FCC/AOS (Mary Ott × *rothschildianum*); grower: New Vision Orchids; photographer: Ed Cott.
- [2] *Paphiopedilum* Mount Toro ‘Snow Peak’ FCC/AOS (*stonei* × *philippinense*); grower: Jeff Morris.
- [3] *Paphiopedilum* Sunlight Anita ‘Angela’ FCC/AOS (Lady Rothschild × *anatum*); grower: Outhay Viengkhou. [Pinkers]
- [4] *Paphiopedilum* Pacific Glory ‘Dream Maker’ FCC/AOS (Pacific Shamrock × Green Glory); grower: Marriott Orchids/Hadley Cash.
- [5] *Paphiopedilum* Lefty Kei ‘Sam’s Choice’ FCC/AOS (William Ambler × *sanderianum*); grower: Orchid Inn, Ltd.

flowered, complex paphiopedilum. Judges noted its “extraordinary size, form and harmonious color” with the natural spread measuring 5.7-inches (14.5-cm) wide by 4.6-inches (11.8-cm) vertical. This example of state-of-the-art, green and gold complex breeding carried extremely full, wide petals and was exhibited by Marriott Orchids/Hadley Cash.

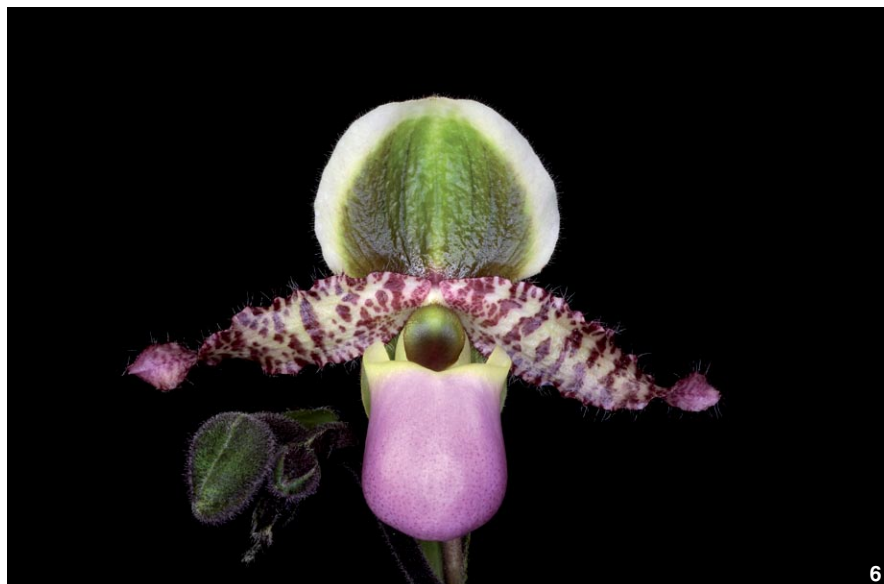
Also exhibiting a sizable increase in natural spread was *Paphiopedilum liemianum* ‘Paph Paradise’, 91 points, a species that had only one prior FCC in 2016. This cultivar, exhibited by Dave Sorokowsky, is 25 percent larger than the previous FCC award, which also received 91 points, in natural spread. The team was especially struck by the intensity of the color.

Paphiopedilum Lefty Kei ‘Sam’s Choice’ (William Amber × *sanderianum*) received 90 points and a Certificate of Cultural Merit of 87 points for its exhibitor Orchid Inn Ltd. Judges commented on its “brilliant color, width of petals, and presentation.” With one-quarter *rothschildianum* in its background, this backcross to *sanderianum* produced a stunning flower resembling a compact *Paphiopedilum* Prince Edward of York. The species *Paphiopedilum wilhelminae* contributed smaller plant size and strong dark markings to the dorsal sepal.

Speaking of strong markings, *Paphiopedilum anitum* (considered a form of *Paphiopedilum adductum*) has been used extensively to contribute additional color to its progeny. Consider *Paphiopedilum* Sunlight Anita ‘Angela’ (Lady Rothschild × *anitum*): it received 91 points for exhibitor Outhay Viengkhou with its saturated dark accents to *rothschildianum*-like flowers with a touch of *Paphiopedilum stonei*.

Demonstrating the cross-sectional compatibility of paphiopedilums, *Paphiopedilum* Edna Frances44 ‘New Vision’ (Mary Ott × *rothschildianum*) takes its breeding from species in three different sections of the genus: *Cochlopetalum* (*Paphiopedilum glaucophyllum*), *Parvisepalum* (*Paphiopedilum armeniacum*) and *Coryopetalum* (*Paph. rothschildianum*). Exhibited by New Vision Orchids and receiving 90 points from the judges, this cross blends multifloral with single-flower and sequential-flowering slipper orchid types.

Generally, a hybrid genus is named by combining the two or three parental genera. By having four genera in its background, (*Cattleya*, *Guarianthe*, *Encyclia* and *Brassavola*) the man-



RAMON DE LOS SANTOS

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WES NEWTON

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ARTHUR PINKERS

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JORGE ENRIQUE CÉSPEDES TRIGUEROS

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- [6] *Paphiopedilum liemianum* 'Paph Paradise' FCC/AOS; grower: Dave Sorokowsky.
- [7] *Lesueuara* Dick Pippen's Suncoast 'Lemon Yum Yums' FCC/AOS (*Brasocatanthe* Little Mermaid x *Encyclia* Lorraine Smith; grower: Jim Roberts Suncoast Orchids.
- [8] *Phalaenopsis tetraspis* f. *livida* 'Norman's Blue' FCC/AOS; grower: Norman's Orchids.
- [9] *Cattleya* x *dolosa* (Alba) 'Carlos Granados' FCC/AOS; grower: Carlos Granados.
- [10] *Phalaenopsis bellina* 'Blue Ridge Finest' FCC/AOS; grower: Mike Mims; photographer: James Curtis.
- [11] *Phalaenopsis bellina* 'Stewart Henderson' FCC/AOS; grower: Krull-Smith; photographer: Wes Newton.
- [12] *Phalaenopsis bellina* 'Frank Smith' FCC/AOS; grower: Krull-Smith; photographer: Wes Newton.
- [13] *Phalaenopsis bellina* 'Atticus' FCC/AOS; grower: Krull-Smith; photographer: Wes Newton.
- [14] *Phalaenopsis bellina* 'Crystelle's Love' FCC/AOS; grower: Krull-Smith; photographer: Wes Newton.
- [15] *Phalaenopsis bellina* 'Jordon Winter' FCC/AOS; grower: Krull-Smith; photographer: Wes Newton.
- [16] *Phalaenopsis bellina* 'Krull's Viola' FCC/AOS; grower: Krull-Smith; photographer: Wes Newton.
- [17] *Phalaenopsis bellina* 'Krull's Queen' FCC/AOS; grower: Krull-Smith. [Newton]
- [18] *Phalaenopsis bellina* 'Krull's Pink Lady' FCC/AOS; grower: Krull-Smith; photographer: Wes Newton.



GLEN BARFIELD



PAIGE RAMSEY MOODY



DAVID GOULD

made genus *Lesueurara* was created. In 2019, this nothogenus received its first ever FCC, garnering 92 points for the brassocatanthe/encyclia cross. *Lesueurara* Dick Phippen's Suncoast 'Lemon Yum Yums' (*Brassocatanthe* Little Mermaid × *Encyclia* Lorraine Smith) was exhibited by Jim Roberts Florida SunCoast Orchids. It also received a Certificate of Cultural Merit (CCM) of 85 points for its outstanding culture: 61 flowers and 14 buds of light-cream flowers with magenta speckling on 10 inflorescences.

Nine of the 10 FCCs for *Phalaenopsis* went to species. Normally, hybrids dominate the top awards in this genus.

Eight out of the nine FCCs to *Phalaenopsis* species went to a single species, *Phalaenopsis bellina*, once known as *Phalaenopsis violacea* var. *borneo*. Now an accepted species, the starry, intensely colored and fragrant flowers come in a variety of color forms giving breeders a robust palette — all this from a relatively compact, summer-blooming plant.

The International Phalaenopsis Alliance Symposium granted five of these FCCs at their July 2019 meeting in central Florida. Cultivars 'Atticus' and 'Crystelle's Love' received 93 points each

for beautifully colored, full, flat flowers. 'Krull's Viola', 'Krull's Pink Lady', and 'Krull's Queen' received 92, 90 and 90 points, respectively. All of these plants were exhibited by Krull Smith.

The lone FCC awarded to a *Phalaenopsis* species that was not a *bellina* went to *Phalaenopsis tetraspis* f. *livida*, with a 90 point score along with a Certificate of Horticultural Merit. The CHM is granted to a species or natural hybrid possessing characteristics that can contribute to the horticultural aspects of orchid growing such as aesthetic appeal.

Phalaenopsis tetraspis f. *livida* 'Norman's Blue' had six slate-blue flowers with white tips and a splash of yellow in the midlobe of the white lip. The judges commended it for its large size and rare color form. It was exhibited by Norman's Orchids at the Orchid Digest Phalaenopsis Symposium at the Huntington Botanical Garden.

Color in cattleyas is always pleasing, but the purity of white can be captivating. Two cattleya alba forms won 90 points each in 2019. *Cattleya* × *dolosa* (Alba) 'Carlos Granados', exhibited by Carlos Granados at the Asociación de Orquideologica de Cartago in Costa Rica, is a natural

hybrid between *Cattleya loddigesii* and *Cattleya walkeriana*. The judges noted the extremely heavy substance of the two large, pure-white flowers.

Cattleya warszewiczii (Alba) 'Gabe's 10th' had 11 snow-white "Commanding... immense...pristine" flowers on two inflorescences. Exhibited by Ben Oliveros and Orchid Eros in Hilo, Hawaii, the flowers have only the lightest overlay of yellow in the throat of the lip lending contrast.

And so we bring you our FCC winners for 2019. While you cannot take them into your hand, we do hope you take a close look at these spectacular flowers and enjoy being in their world, all 71 of them, for the moment.

— Carol Klonowski has been growing orchids since the 1980s in Northern California and has served as director, vice-president, and president of the Orchid Society of California for most of the past two decades. She is currently an accredited Judge in the AOS, California-Sierra Nevada Judging Center (cklonowski@aol.com).



JAMES HARRIS

22



WES NEWTON

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CLAUDE W. HAMILTON

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RACHEL KELMER

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RACHEL KELMER

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WES NEWTON

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JAMES CURTIS

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LORNA MAZZA

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WES NEWTON

30



WES NEWTON

31

- [19] *Cattleya warscewiczii* (Alba) 'Gabe's 10th' FCC/AOS; grower: Ben Oliveros/Orchid Eros.
- [20] *Paphiopedilum rothschildianum* 'Franklin Atticus Smith' FCC/AOS; grower: Krull-Smith.
- [21] *Paphiopedilum* QF Voodoo 'Be Still My Heart' FCC/AOS (Voodoo Kitty x Lorraine's Pride); grower: Vee T. Du.
- [22] *Phragmipedium* Ivan Portilla 'Memoria Katherine Norton' FCC/AOS (Grouville x kovachii); grower: Graham Ramsey.
- [23] *Broughtonia sanguinea* 'Betty Chung' FCC/AOS; grower: Betty Chung.
- [24] *Paphiopedilum moquetteanum* 'Springwater Elegance' FCC/AOS; grower: Springwater Orchids/Thanh Nguyen.
- [25] *Paphiopedilum hirsutissimum* 'Marriott Magnum' FCC/AOS; grower: Marriott Orchids/Hadley Cash.
- [26] *Gomesa Jiaho Queen* 'William's First' FCC/AOS (Mulattas' Dancing x varicose); grower: William Oquendo.
- [27] *Brassavola grandiflora* 'Springwater' FCC/AOS; grower: Springwater Orchids/Thanh Nguyen.
- [28] *Paphiopedilum* Rollie Wilson 'Springwater' FCC/AOS (Hung Sheng Eagle x rothschildianum); grower: Springwater Orchids/Thanh Nguyen.
- [29] *Clowesetum* Amazing Grace 'Oh My GOD! Corinne!' FCC/AOS (*Clowesia* Grace Dunn x *Catasetum* Orchidglade); grower: Corinne Arnold.
- [30] *Rhynchostylis gigantea* 'Crystelle Smith' FCC/AOS; grower: Krull-Smith.
- [31] *Vandachostylis* Dona Celeste 'Garrett's Pink Passion' FCC/AOS (*Vanda* Dona Rome Sanchez x *Rhynchostylis coelestis*); grower: Sharon and David Garrett.



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WES NEWTON



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JAY LOEFFLER



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KAY CLARK



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BRYAN RAMSAY



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WES NEWTON



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WES NEWTON

[32] *Papilionanda* Austen Liam Kean Hae Chen 'Michael D. Gibson' FCC/AOS (Mimi Palmer x *Vanda brunnea*); grower: Naoki Kawamura.

[33] *Vanda coerulea* 'Crystelle' FCC/AOS; grower: Krull-Smith.

[34] *Paphiopedilum primulinum* var. *primulinum* 'WingDreams' FCC/AOS; grower: Julio and Eileen Hector.

[35] *Bulbophyllum grandiflorum* 'Crystelle' FCC/AOS; grower: Krull-Smith.

[36] *Paphiopedilum* Booth's Sand Lady 'Crystelle' FCC/AOS (Lady Isobel x *sanderianum*); grower: Krull-Smith.

[37] *Paphiopedilum* Krull's Shimmering Stone 'Crystelle' FCC/AOS (Krull's Lady x *stonei*); grower: Krull-Smith.

[38] *Masdevallia* Anochecer 'Max & Bryon' FCC/AOS (*peristeria* x *panguiensis*); grower: Max Thompson and Bryon Rinke.

[39] *Vandachostylis* Dragon's Tongue 'MV Cosmos' FCC/AOS (Pinky x *Vanda longipetala*); grower: Stuart Henderson.

[40] *Paphiopedilum* Dark Destiny 'Black Ice' FCC/AOS (Montagnard x Black Wizard); grower: Marriott Orchids/Hadley Cash.



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BILL FAJEN



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MONROE KOKIN



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BRYON RINKE

MELISSA GARNER



41

BAYARD SARADUKE



44

CHAUNIE LANGLAND



50

BAYARD SARADUKE



45

CHAUNIE LANGLAND



51

BAYARD SARADUKE



42

BAYARD SARADUKE



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- [41] *Catasetum* Dagny 'Windy Hill's Falkor' FCC/AOS (*pileatum* × Brent's Black Hawk); grower: Marilyn LeDoux.
- [42] *Paphiopedilum* Lady Isobel 'Bellissima' FCC/AOS (*rothschildianum* × *stonei*); grower: Sergey and Elena Skoropad.
- [43] *Brassia* Steve Male 'Thanks John' FCC/AOS (*keiliana* × Memoria Bert Field); grower: Stephen Male/Fishing Creek Orchids.
- [44] *Paphiopedilum* Robinianum 'Rogan's Lady Kathleen' FCC/AOS (*lowii* × *parishii*); grower: John Rogan.
- [45] *Rhyncholaeliocattleya* Memoria Ralph Placentia 'Toreador' FCC/AOS (Memoria Albert Heinecke × Norman's Bay); grower: Bayard Saraduke.
- [46] *Cattleya perrinii* 'Waterford' FCC/AOS; grower: Bayard Saraduke.
- [47] *Cattleya* Raspberry Smoke 'Raspberry Diesel' FCC/AOS (Allen Condo × Maui Plum); grower: Waldor Orchids, Inc.
- [48] *Phragmipedium* Sue Omeis 'Black Canyon' FCC/AOS (Saint's Apprentice × Lynn Evans-Goldner); grower: Woodstream Orchids.
- [49] *Phragmipedium* Fritz Schomberg 'Eddy Lick Run' FCC/AOS (*kovachii* × *besseae*); grower: Woodstream Orchids.
- [50] *Lycaste* Abou Sunset 'Amitabha' FCC/AOS (Chita Sunset × Alan Saltzman); grower: Japheth Ko.
- [51] *Dendrobium kingianum* 'T.R. Samara' FCC/AOS; grower: Japheth Ko.

BAYARD SARADUKE



47

JULIE ROTRAMEL



43

BRYAN RAMSAY



48

WILLIAM AMMERMAN



49



MICHAEL TIBBS

52



YEH, JEN-CHIEH

57



CHAUNIE LANGLAND

62



ARNOLD GUM

53



ARTHUR PINKERS

58



JORGE ENRIQUE CÉSPEDES TRIGUEROS

63



ARTHUR PINKERS

54

[52] *Phalaenopsis* Fangmei Pink Pearl 'NCKU Beauty' FCC/AOS (Jiuhbao Diana × Chian Xen Piano) FCC/AOS; grower: Fangmei Orchids.

[53] *Catamodes* Darkonium 'Ebony Beauty' FCC/AOS (Dragons Tail × *Catasetum* John C. Burchett); grower: Rick Wells.

[54] *Miltonia moreliana* 'Beule's Big One' FCC/AOS; grower: Richard Rothschild.

[55] *Paphiopedilum* Fumi's Delight 'Sunset Valley Orchids' FCC/AOS (*armeniacum* × *micranthum*); grower: Fred Clarke.

[56] *Phragmipedium* Suzanne Decker 'Teresa' FCC/AOS (*kovachii* × Cape Sunset); grower: Alfredo Manrique.

[57] *Dendrobium* Burana Pearl 'Hsian Yu' FCC/AOS (Hirota White × Burana Stripe); grower: Lin, Chuang-Lei.

[58] *Paphiopedilum* Saint Swithin 'Sunset Valley Orchids' FCC/AOS (*philippinense* × *rothschildianum*); grower: Fred Clarke.

[59] *Cattleya schilleriana* 'Franklin' FCC/AOS; grower: Jeremy Quesada González.

[60] *Cattleya loddigesii* 'María Adelia' FCC/AOS; grower: Carlos Granados.

[61] *Dendrobium violaceum* 'Mari's Love' FCC/AOS; grower: Carlos Bianchi.

[62] *Stanhopaea tigrina* 'RoEm' FCC/AOS; grower: Mary Bui-Pham.

[63] *Rhyncholaeliocattleya* Taichung Beauty 'Maria Rafaela' FCC/AOS (Pamela Finney × Elegant Dancer); grower: Rodrigo Rojas.



ARTHUR PINKERS

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JORGE ENRIQUE CÉSPEDES TRIGUEROS

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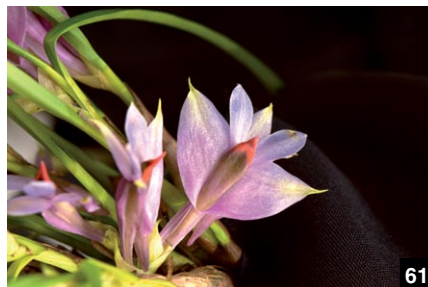
WALTER H. WUJST

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JORGE ENRIQUE CÉSPEDES TRIGUEROS

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JORGE CARLOS

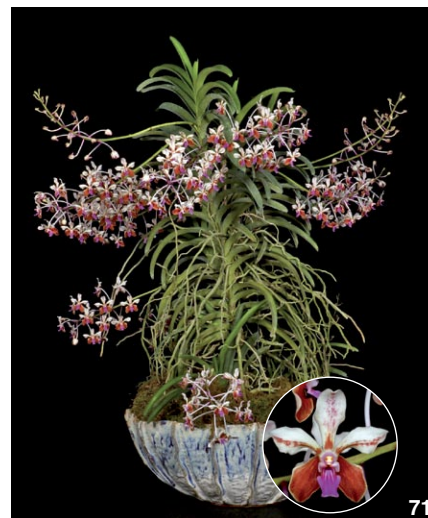
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TOM KULIGOWSKI



TOM KULIGOWSKI



TOM KULIGOWSKI



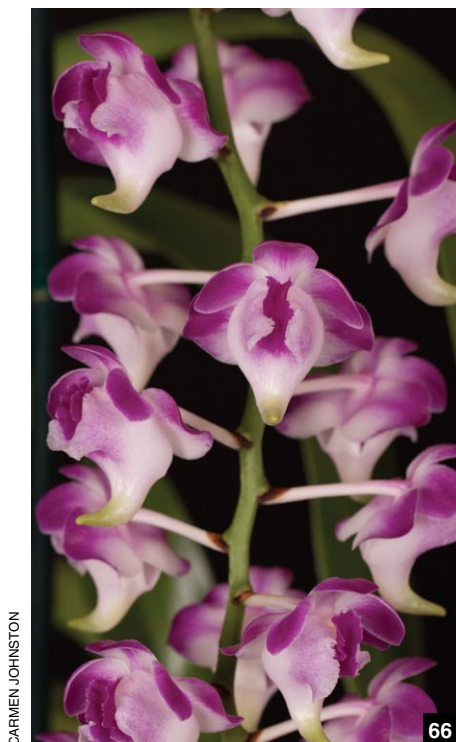
ARTHUR PINKERS



DAVID NICKERSON



ARTHUR PINKERS



CARMEN JOHNSTON



JORGE ENRIQUE CÉSPEDES TRIGUEROS

- [64] *Rhyncattleanthe* Nina de Primavera 'Crownfox Sunrise' FCC/AOS (Orange Nuggett × *Cattleya* Horace); grower: Sandi Block-Brezner.
- [65] *Cattleya* Allen Condo 'Paula' FCC/AOS (Summerland Girl × Mrs. Mahler); grower: Joseph Grezaffi, III.
- [66] *Aerides lawrenceae* 'Soroa Sensation' FCC/AOS; grower: Soroa Orchids, Inc.
- [67] *Vanda* Misty Pace 'Crownfox' FCC/AOS (Martina Rivera × Liz Letzler); grower: RF Orchids, Inc.
- [68] *Cattleya coccinea* 'Tokyo Crown' FCC/AOS; grower: Peter T. Lin.
- [69] *Cattleya intermedia* (Orlata Flamea) 'Valentine' FCC/AOS; grower: Outhay Viengkhou.
- [70] *Cattleya schilleriana* 'Alejandro Rodríguez Cheung' FCC/AOS; grower: Alejandro Rodríguez Cheung.
- [71] *Vanda lamellata* var. *boxallii* 'Crownfox' FCC/AOS; grower: RF Orchids, Inc.

Orchids in Watercolor

Cypripedium Lucy Pinkepank (*kentuckiense* × *tibeticum*)

Marcia Whitmore

Cypripedium Lucy Pinkepank is a hybrid of the North American native *Cypripedium kentuckiense* and the Chinese *Cypripedium tibeticum*. This hybrid was registered and released in 1998 by Werner Frosch, a well-known European hybridizer of terrestrial orchids. Many native and hybrid *cypripediums* are available from several reputable vendors, both North American and European, that can be found online. This hybrid can be grown in temperate gardens with careful attention to medium. I find an equal mixture of Espoma Soil Perfector (a naturally derived ceramic soil conditioner), Soilmaster[®], gravel and coir works well for all *Cypripedium* species and hybrids. This lovely raspberry pink-and-white lady slipper grows to 15 inches (38 cm) tall and benefits from at least two hours of morning sun. I did this painting from a plant in my garden. The watercolor is complete on Arches 400 lb. coldpressed paper.

Marcia Whitmore began growing orchids in a basement room under fluorescent lights in 1972 and moved into a 14-ft × 18-ft (4.3 m × 5.5 m) greenhouse in 1984. Marcia is a retired teacher and fine arts coordinator and taught in public schools for 35 years. She has earned many AOS awards and is a member of the Illowa Orchid Society, Eastern Iowa Orchid Society, American Society of Botanical Artists and the Great River Chapter of Botanical Artists (whitbrits@gmail.com, <https://asba-art.rog/member-gallery/marcia-whitmore>, www.marciawhitmore.com).



The Best of the Best!

2018 American Orchid Society Annual Awards

NILE S. DUSDIEKER



THE AMERICAN ORCHID Society Board of Trustees, upon the recommendations of the Judging Committee, bestowed 22 special awards drawn from all of the AOS awards for the calendar year 2018. These awards are meant to recognize the growers of the best orchids by genera, species, and culture. Congratulations are in order to the exhibitor and in most cases the grower of these outstanding plants. Additional kudos goes to those setting up displays at orchid shows for people to appreciate the beauty of these flowers. Credit is given to the hybridizers who are constantly working to improve the quality and stamina of the flowers. Finally, we laud our many skilled photographers who capture these plants at the time of initial judging, recording their excellence for all posterity. The Best of the Best from 2018 is presented here along with some personal comments by several of the exhibitors. Enjoy!

Ann and Phil Jesup Botanical Trophy (Fig. 1): Given to the grower of the most outstanding orchid species.

The ‘buzz’ word for this award in culture and photography is excellence! Jim Pырzynski lives in Bellevue, Nebraska and became interested in *Ophrys* “when I read about their cross-pollination strategy which uses deceit. The flowers are said to resemble female bees and the plants fool the male into trying to mate with them, and in the process the flower is pollinated.” One can almost expect this flower to take flight! These orchids are cool growing terrestrials from coastal lands surrounding the Mediterranean Sea.

Benjamin C. Berliner Award (Fig. 2): Given to the grower of the most outstanding example of the genus *Lycaste* or its closely allied genera.

This plant with 14 flowers and 18 buds on 32 inflorescences had very striking color contrast between the copper-rose sepals and lemon-yellow central petals and lip. This species is found in the cloud forests of Central America growing in cool, shady conditions with high humidity.

Benjamin Kodama Award (Fig. 3): Given to the grower of the most outstanding member of the *Dendrobium* Alliance.

This plant had 20 brilliant white flowers with a contrasting central red-orange color on 11 axillary inflorescences. This hybrid is from the ‘nigro-hirsute’ grouping of *dendrobiums*, which has fine, dark hairs all along the pseudobulbs. In general, this



group likes bright, intermediate-to-warm growing conditions.

Bill Thoms Award (Fig. 4): Given to the grower of the orchid regarded as the most outstanding example of the *Bulbophyllinae*.

Laura is a hobby orchid grower with a collection of over 2,000 plants in greenhouses in Brooksville, Florida. “I received this plant from a very good friend (handpicked by Bill Thoms), got to share it with one of my very best friends (Dolores Smith), and the award was photographed by my husband; a truly special occasion for all of us!” Laura Newton is the Award Registrar for the AOS.

The Butterworth Prize (Fig. 5): Granted to the grower of the plant exhibiting the finest orchid culture awarded in 2018.

- [1] *Ophrys speculum* subsp. *speculum* ‘Jim’ AM/AOS (81); exhibitor and photographer: Jim Pырzynski; Greater Omaha Orchid Society Show, Omaha, NE, March 24, 2018.
- [2] *Lycaste lasioglossa* ‘Melissa Archila’ AM/AOS (83); exhibitor: Fredy Archila Morales; photographer: Jorge Carlos; Asociación Altaverapacense de Orquideología Show, Coban, Guatemala, sponsored by the Carolinas Judging Center, November 28, 2018.
- [3] *Dendrobium* Jiaho Candy ‘Popping Pumpkin’ AM/ AOS (Hsinying Frostymaree × *bellatulum*) (83); exhibitor: Norman’s Orchids; photographer: Arthur Pinkers; Pacific South Monthly Judging – Long Beach, California, April 23, 2018.



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This amazing specimen plant had over 500 flowers on 65 inflorescences on a 77- × 61-inch (195- × 155-cm) plant growing in a slatted wooden basket. The plant was one point away from perfection for an AOS cultural award, WOW! This species is native to the Mascarene and Seychelle Islands east of Madagascar and likes bright, diffused light and intermediate-to-hot temperatures.

Carlyle A. Luer Award (Fig. 6): Given to the grower of the most outstanding plant of the Pleurothallid Alliance.

This spectacular plant had over 600 red-orange flowers on an immaculate plant mounted on a wood log. This species is native to Costa Rica, growing in shady, warm conditions at around 4,580 feet (1,400 m) altitude. Norman Stellar Rodriguez says, “16 years ago my wife and I started with this passion for the orchids, especially for miniature orchids. It is a hobby to which we dedicate time every day. We are honored that this award represents a plant native to our country, Costa Rica.”

Ernest Hetherington Cymbidium Award (Fig 7): Honors the grower of the orchid plant regarded as the most outstanding example of the genus *Cymbidium*.

This awarded cymbidium calls Rising Sun, Indiana its home. John and Cheryl Jaworski grow this plant “in a clay pot in sphagnum moss, in the greenhouse in winter and outdoors when weather is appropriate. This year it has three inflorescences which should be in bloom this spring.” The cultivar ‘Emerald Fire’ has been recognized by the AOS and Cymbidium Society of America with previous awards in 2007. Congratulations for growing cymbidiums in Indiana; a feat many Midwesterners find difficult indeed!

Frank Sr. and Elizabeth Jasen Award (Fig. 9): Given to the grower of the orchid plant regarded as the most outstanding example of the Stanhopea Alliance.

Some call *Gongora* flowers ‘Flying Dragons,’ especially when viewed from the side. This plant had 42 red-brown flowers on two pendent inflorescences. Terry Letendre lives in Edmonton, Alberta, Canada and “grows 1,200 mixed genera orchids in a lean-to greenhouse in his backyard. This plant flowers up to three times a year.” He said, “I used to name AOS award cultivars after (my) dogs, but I no longer have dogs so now I name them after my grandchildren.” Children do love



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- [4] *Bulbophyllum* Dolores Smith ‘Whisper Pretty in Pink’ AM/AOS (Crownpoint × *bicolor*) (87); exhibitor: Laura Newton and Dolores Smith; photographer: Wes Newton; Florida North-Central Judging Center – Orlando, July 14, 2018.
- [5] *Angraecum eburneum* subsp. *girymae* ‘4N Nursery’ CCE/AOS (99); exhibitor, 4N Orchids; photographer, Jen-Chieh Yeh; Orchid Research and Development Center at National Chen Kung University – Outreach, Tainan, Taiwan, sponsored by Pacific Central Judging Center, Nov 10, 2018.
- [6] *Specklinia lanceola* ‘Ericks’ CCE/AOS (92); exhibitor, Norman Steller; photographer, Jorge Enrique Céspedes Trigueros; Asociación Jueces de Orquideas de Costa Rica, sponsored by the Puerto Rico Judging Center, August 30, 2018.
- [7] *Cymbidium* Geno’s Gem ‘Emerald Fire’ AM/AOS (Mad Hatter × Kalimpong) (83); exhibitor, John and Cheryl Jaworski; photographer, Richard Noel; Greater Cincinnati Orchid Society Show, Cincinnati Judging Center, March 10, 2018.

dragon stories!

Fred Hillerman Award (Fig 10): Honors the grower of the orchid plant regarded as the most outstanding example of the Angraecoid Alliance.

This plant received the AOS highest cultural award (CCE) for the extraordinary number of flowers (856 on 48 inflorescences) and overall appearance of this specimen. Jeff Parker originally acquired this plant from Fred Hillerman in 1990 at his remote Grass Valley, California, nursery. "Fred was very gracious and looked for special things hiding in his greenhouses for me." The plant grows in a net pot hanging on the wall in the shade bathed by cool Hawaiian ocean breezes.

Fuchs Family Award (Fig. 8): Given to the grower of the most outstanding example of the genus *Vanda* as currently circumscribed.

Martin Motes tells us, "The story of *V. Motes Purple Rain* began with a community pot of seedlings (*V. tessellata* – Sri Lanka strain) from T. Orchids (Thailand) in 1991. Two of the plants . . . bloomed out nearly black and one was awarded an FCC to the AOS as variety 'Mary Motes'. Years later, we received a plant of *Vanda Karnda* (*tessellata* × Erika Reuter), which also had great depth of dark purple color, perhaps as the result of its Thai origin from the same strain of *V. tessellata* that produced the 'Mary Motes' FCC/AOS. Martin's hybrid of these two backcrossed to the original dark *tessellata* produced this awarded Purple Rain. Further breeding along this line is yielding new hybrids that are not as dark but still with a blue lip."

Herbert Hager Award (Fig. 11): Given to the grower of the orchid plant regarded as the most outstanding example of the genus *Phalaenopsis*.

Eric Goo has been growing and breeding phalaenopsis for over 30 years at his greenhouse in Phoenix, Arizona. This hybrid represents a recent trend in phalaenopsis breeding using *Phalaenopsis bellina* to make small, brilliantly colored, star-shaped hybrids. Eric says, "At the time of award it was a second-bloom seedling in a 3-inch (7.6-cm) pot. I bred it, grew it, got it awarded and photographed it." Indeed, he has over 175 AOS awards including 10 Awards of Quality (AQ) for outstanding breeding.

James and Marie Riopelle Award (Fig. 17): Given to recognize the grower of the



- [8] *Vanda Motes Purple Rain* 'Darkness at Noon' HCC/AOS (Blue Tahourdin × *tessellata*) (78); exhibitor: Motes Orchids; photographer: Brian Monk; Florida-Caribbean Center Monthly Judging, February 17, 2018.
- [9] *Gongora catilligera* 'Charlotte Ann Wheeler' AM/AOS (82); exhibitor: Terry Letendre; photographer: Judith Higham; Orchid Society of Alberta, Western Canada Judging Center, April 6, 2018.
- [10] *Aerangis citrata* 'Jeff's' CCE/AOS (95); exhibitor: Tropical Orchid Farm; photographer: Michael Blietz; Hawaii Center Monthly Judging – Maui, March 20, 2018.
- [11] *Phalaenopsis* Sweet Shadow 'Phoenix Gold' AM/AOS (LD's Bear Queen × Sweet Trinity) (82); exhibitor: Eric Goo and Phoenix Orchids; photographer: Eric Goo; Desert Valley Orchid Society Show, Pacific South Judging Center, April 7, 2018.

most outstanding *Miltonia* or *Miltoniopsis* species or hybrid.

Yellow “pansy orchid” flowers (*Miltoniopsis*) can be spectacular! This plant had 10 large, flat flowers on two inflorescences accentuated by rose-to-rust patches centrally. Many hobbyists have difficulty growing these cool tolerant plants along with the rest of their collections. No problem in Hawaii where almost any microclimate can be found, especially when one’s address is called “mountain view” — away from the volcano one presumes!

Martin Motes Orchid Breeder’s Award (Fig. 19): Given to the breeder and exhibitor of the best Award of Quality (AQ) or Award of Distinction (AD).

This award goes to hybridizer extraordinaire, Frank Smith. “This AQ grex of *Phal. bellina* is the third *bellina* grex of mine to receive an AQ. It is the result of six generations of line breeding of this species. This grex received nine FCCs this year.” Five of the plants presented at the time of the AQ also received AM/AOS quality awards. Frank started AOS judging in 1981 and is recently Past President of the AOS.

Masatoshi Miyamoto Award (Fig. 20); Honors the grower of the most outstanding member of the *Cattleya* Alliance.

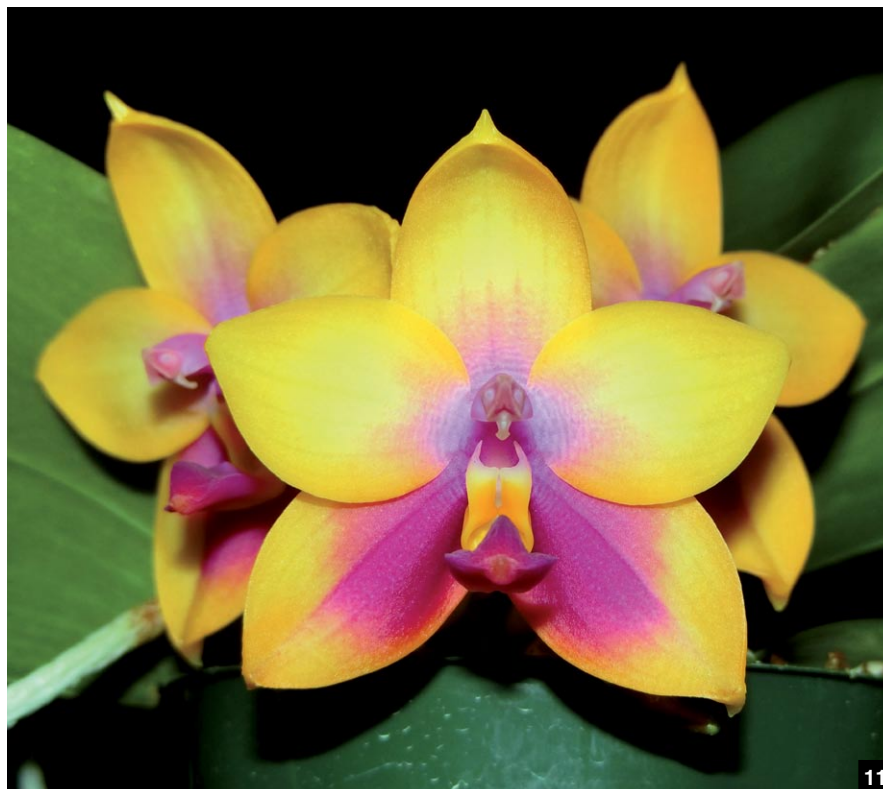
Ben Oliveros is the owner of Orchid Eros, a commercial nursery on the Big Island of Hawaii specializing in the *cattleyas*. “This cultivar originated as a seedling purchased from Sergio Garcia imported from Brazil.” Ben’s suspicion is “that one parent is *tipo* [the typical form] and one concolor [named for the same lavender shade in the sepals, petals and lip] to give this gorgeous coloration and shape” to the flower.

Merritt W. Huntington Award (Fig. 18): Honors the grower of the most outstanding plant awarded a First Class Certificate, (the highest AOS flower quality award).

Phillip Hamilton, owner of Bredren Orchids, grew up immersed in orchids at his dad’s nursery, Hamlyn Orchids, Jamaica. He accompanied his dad to the Miami International Orchid Shows and subsequently entered the AOS judging program at age 18 when starting college. “This grex was bred by my dad and named for a very dear friend of his from the Cayman Islands.” When awarded, it was a first-bloom seedling with 25 flowers on two upright inflorescences. Of note, “this was available as an unbloomed seedling



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[12] *Oncidium alexandrae* 'Cream' AM/AOS (82); exhibitor, New Vision Orchids; photographer, Richard Noel; Greater Cincinnati Orchid Society Show, March 10, 2018.

[13] *Paphiopedilum* Chiu Hua Dancer 'Golden Seven' FCC/AOS (*gigantifolium* × *sanderianum*) (90); Exhibitor, Hilo Orchid Farm; photographer, Glen Barfield; Hawaii Center Monthly Judging – Big Island, March 23, 2018.

[14] *Aeridovanda* Somsri Sunlight 'Golden Sands' AM/AOS (*Aerides lawrenceae* × *Vanda* Rasri Gold) (84); exhibitor, R.F. Orchids, Inc; photographer, Tom Kuligowski; West Palm Beach Center Monthly Judging, July 28, 2018.

[15] American Orchid Society Show Trophy 'MOS 2018' ST/AOS (84); exhibitor, Sarah Hurdel, Owen Humphrey; photographer, Julie Rotramel; Maryland Orchid Society Show, National Capital Judging Center, March 8, 2018.

[16] *Masdevallia* Confetti 'Spikenard' CCE/AOS (*strobilii* × *glandulosa*) (90); exhibitor, Rick Rancourt; photographer, Judith Higham; Fraser Valley Orchid Society, Western Canada Judging Center, October 27, 2018. This is a new award for 2018.





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DUSDIEKER

at the Redland's Festival the year prior to this award. It went unsold and so I inherited it, a bit rough around the edges, but very much alive." Look at it now!

Milton Carpenter Award (Fig. 21): Given to the grower of the orchid plant regarded as the most outstanding example of intergeneric hybridizing within the Oncidiinae.

Brassidomesa is a cross between *Brassidium* and *Gomesa*. Nine flat, yellow-green, star-shaped flowers with chocolate spots were presented on one inflorescence. Japheth Ko is an AOS judge and said, "My first orchid was . . . bought at a fair when I was nine, growing up in Taiwan (for the equivalent of 2.5 cents)" and continued "growing orchids as a hobby after settling down in Silicon Valley. I acquired this plant from Gold Country Orchids [Alan Koch] a few years ago when I visited his greenhouse. Alan made the cross. It is easy to grow and blooms reliably every year."



Paul and Mary Storm Award (Fig. 22): Given to the grower of the orchid plant regarded as the most outstanding example of a hybrid with at least one valid *Myrmecophila* species and/or the former *Schomburgkia* species in its background.

Leonard Gines is a Senior AOS judge that moved from Hawaii to Portland, Oregon. This awarded plant "was a selected plant from a hybrid I made years ago. I'm so happy to receive this award as Paul and Mary (Storm) are friends that I think the world of. Paul got a number of plants from this cross and I hope that they turned out as nice. The purpose of the hybrid was to bring plant size down, keep the inflorescence and flowers above the foliage and infuse color into the flowers."



Robert B. Dugger Award (Fig. 12): given to the grower of the most outstanding example of the *Odontoglossum* Alliance as defined by the taxonomy in place in 1996.

Russ Vernon is the owner of New Vision Orchids in Yorktown, Indiana. "*Odm. crispum* 'Cream' AM/AOS (as I still like to call it) was a division given to me many years ago by Mario Ferrusi of Fenwick, Ontario. He lived on Cream St. I have used this plant to make several hybrids and have sibbed it with other crispums to propagate the species. [It] originated with a native tetraploid population of crispums found in Colombia." Russ has received four previous Dugger Awards. He is an AOS judge and current President of the



Mid-America Orchid Congress.

Roy T. Fukumura Award (Fig. 14): Recognizes the grower of the most outstanding vandaceous orchid (including intergeneric hybrids).

Robert Fuchs is owner of R.F. Orchids, Homestead, Florida and this is their seventh Fukumura Award. “We’re thrilled and honored, particularly since Roy was a very good friend and mentor. The most interesting thing about this particular cultivar is the color. In our experience, breeding with *Aer. lawrenceae*, crossing with large-flowered vandas, the resulting progeny tend to have very pastel colors — still beautiful, of course, but very unusual to have (the awarded) flower with this depth of color.” Bob is Vice-President of the AOS and an outstanding hybridizer.



W.W. Wilson Award (Fig. 13): Honors the grower of the most outstanding example of the Cyripedioideae.

James Fang is owner of Hilo Orchid Farm on the Big Island of Hawaii. He says, “we have grown that plant for about six years until it finally reached its full potential to produce seven flowers (per inflorescence), and it has been producing seven flowers on a flower spike every season after that.” This grex with its gently twisted, pendent petals has become a very popular hybrid to own by “Paph. fanatics!”



Walter Off Exhibit Award (Fig. 15): Given to an AOS Show Trophy, Silver Certificate, Gold Certificate or Educational Award which is recognized as the most outstanding example of these types of awards given at an AOS sanctioned orchid show.

Sara Hurdel commented, “This was a personal exhibit installed with the help of my son, Owen, at the Maryland show. Very little was planned in advance. The tree I used was a last-minute addition — a large dead mountain laurel along the driveway caught my eye; before even considering how I was going to transport it in my already tightly packed vehicle, I had a saw in my hand!” Most of the 58 plants in the exhibit were contributed by hobby growers with over half being grown only under lights. Show Trophy awards are equally weighted for display presentation, flower quality and orchid variety.

Mario and Conni Ferrusi (Fig. 16): Given to the grower of the orchid regarded as the most outstanding example of *Masdevallia*, *Dracula* or *Dracuvallia*.

Sixty-seven fragrant, lavender flowers were nicely distributed over this plant. Rick Rancourt is a hobby grower from Victoria, Canada: “I was introduced to orchids while working in Thailand, an orchid haven to be sure. So, my growing history goes back some 30 years. The clonal name ‘Spikenard’ reflects an aromatic fragrance used by the ancients.”

— Nile Dusdieker is a retired physician and an accredited American Orchid Society judge associated with the Chicago judging center. He and his wife, Lois, grow around 900 orchids of varied genera in a greenhouse atop their third garage at their North Liberty, Iowa home. Most of the orchids move to an outside pergola for the summer months. Nile enjoys giving presentations on a wide variety of orchid topics and has presented at international meetings (email: niledusdieker@gmail.com).

[17] *Miltoniopsis* Michiko Hayasuke ‘Mango Dancer’ AM/AOS (*Tropical Punch* × *roezlii*) (80); exhibitor, Winning Orchids; photographer, Glen Barfield; Hilo Orchid Society Show, Hawaii Judging Center, July 12, 2018.

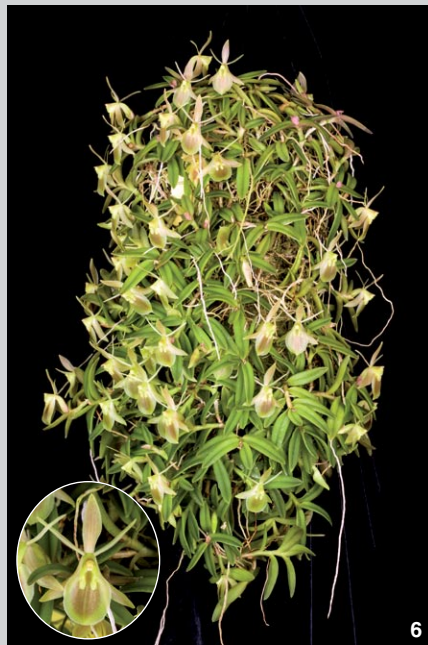
[18] *Dendrobium* Kirkland Nixon ‘Bredren’ FCC/AOS (*Hamlyn Double Helix* × *Colleen Hopkinson*) (93); exhibitor, Bredren Orchids and Phillip Hamilton; photographer, Wes Newton; Central Florida Orchid Society Show, June 2, 2018.

[19] *Phalaenopsis bellina* (‘Jim Krull’AM/AOS × ‘Judy Smith’) AQ/AOS; exhibitor, Krull-Smith; photographer, Wes Newton; Central Florida Orchid Society International Slipper Orchid Symposium, Florida North-Central Judging Center, November 1, 2018.

[20] *Cattleya trianae* ‘Full Moon’ AM/AOS (85); exhibitor, Ben Oliveros and Orchid Eros; photographer, Glen Barfield; Hawaii Center Monthly Judging – Big Island (Hilo, Hawaii), September 28, 2018.

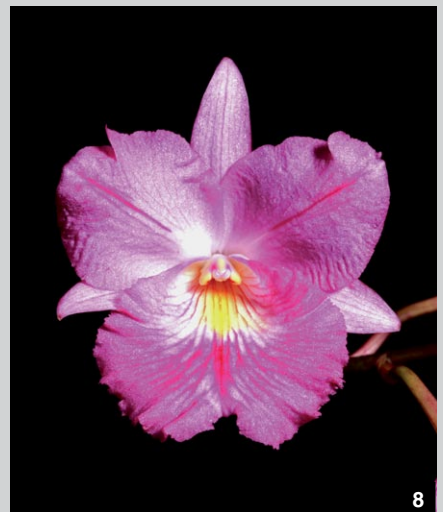
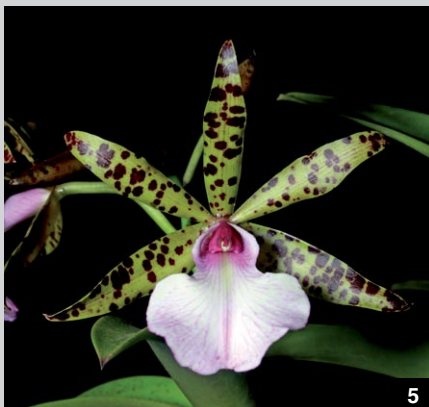
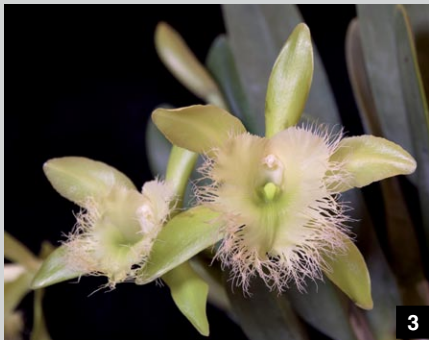
[21] *Brassidomesa* Golden Stars ‘Big Ben’ AM/AOS (*Gomesa echinata* × *Brassidium* Shooting Stars) (80); exhibitor, Japheth Ko; photographer, Chaunie Langland; Pacific Central Monthly Judging – Oakland, March 19, 2018.

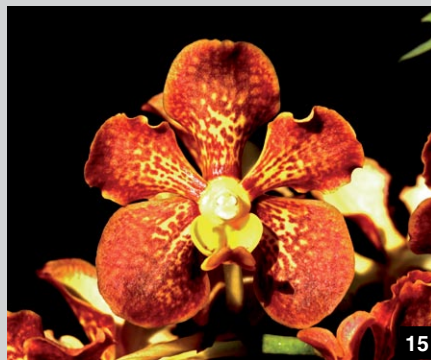
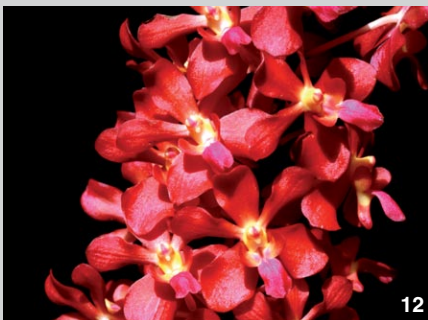
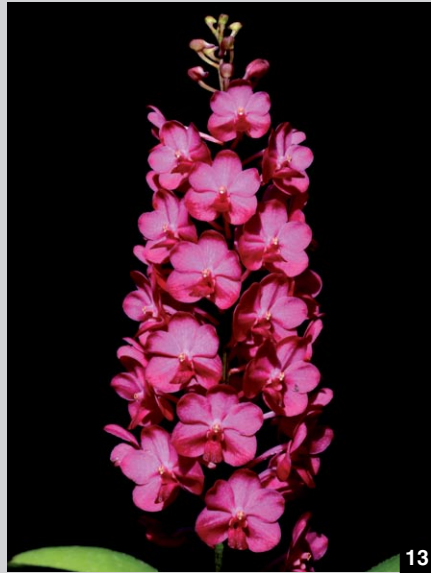
[22] *Myrmecocattleya* Maku’u Mana ‘Maku’u’ HCC/AOS (*Cattleya* Lucia Cecilia × *Myrmecophila tibicinis*) (78); exhibitor, Gines Orchids, Leonard Gines; photographer, Ross Leach; Pacific Northwest Monthly Judging – Keizer, Oregon, July 1, 2018.



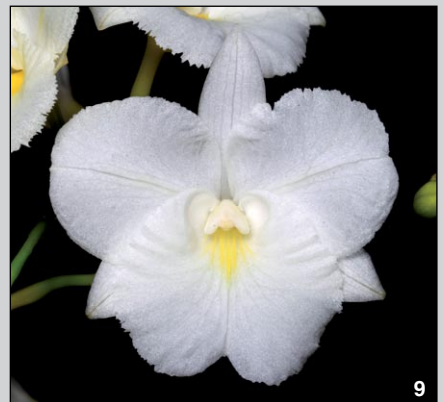
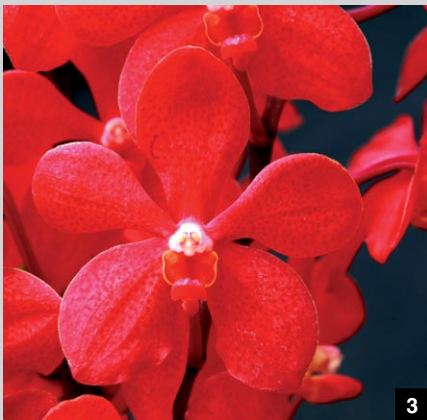
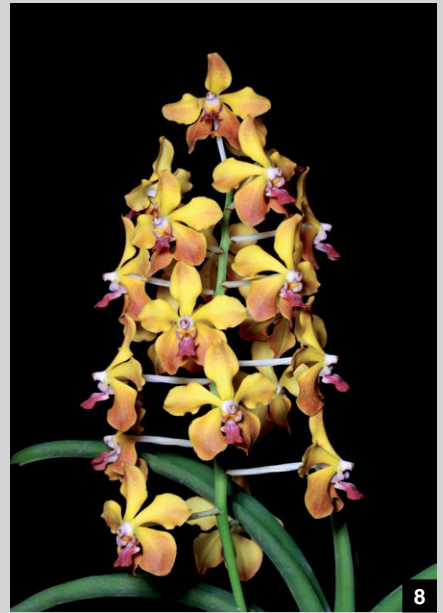


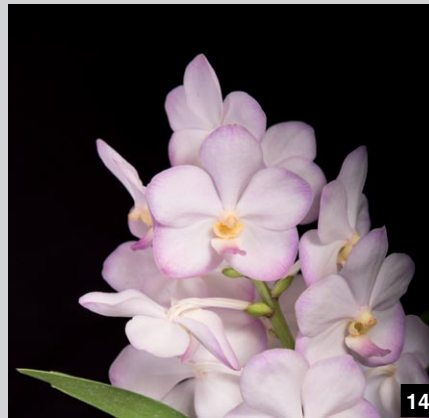
- [1] *Paphiopedilum* Snow Dancer 'Seeing Spots' AM/AOS (Memoria Jack Tonkin x Skip Bartlett) 82 pts. Exhibitor: Marriott Orchids; photographer: James Harris. Carolinas Judging
- [2] *Stanhopea oculata* 'Ruth Marie Christian' CCM/AOS 80 pts. Exhibitor: Olbrich Gardens; photographer: Scott Weber. Chicago Judging
- [3] *Dendrobium mariae* 'Lorette' CBR/AOS. Exhibitor: Charles and Jane High; photographer: Nile Dusdieker. Chicago Judging
- [4] *Vandachostylis* Motes Alabaster 'Karina Motes' AM/AOS (Monica Brick x *Vanda tessellata*) 83 pts. Exhibitor: Motes Orchids, Inc.; photographer: Brian Monk. Florida-Caribbean Judging
- [5] *Epidendrum neolehmannia* 'Orkiddoc' CBR/AOS. Exhibitor: Larry Sexton; photographer: Nile Dusdieker. Chicago Judging
- [6] *Epidendrum neolehmannia* 'Windswept's Green Gnome' CCM/AOS 82 pts. Exhibitor: Windswept in Time Orchids; photographer: Richard Noel. Cincinnati Judging
- [7] *Clowesetum* Mark Margolis 'Key Lime Pie' HCC/AOS (*Catasetum* Durval Ferreira x *Clowesia dodsoniana*) 78 pts. Exhibitor: Mark Margolis; photographer: Brian Monk. Florida-Caribbean Judging
- [8] *Papilionanda* Motes Wise Women 'Salomon's Queens' AM/AOS (Bruce's Evelyn x *Vanda* Mary Motes) 83 pts. Exhibitor: Motes Orchids, Inc.; photographer: Brian Monk. Florida-Caribbean Judging
- [9] *Perreiraara* Bangkok Sunset 'Karina' AM/AOS (*Vandachostylis* Thai Noi x *Aerides houletiana*) 84 pts. Exhibitor: Motes Orchids, Inc.; photographer: Brian Monk. Florida-Caribbean Judging
- [10] *Rhyncattleanthe* ChocoBerry Fondue 'Lady Stella' HCC/AOS (*Cattlianthe* Chocolate Drop x *Rhyncholaeliocattleya* Ryo Iwata) 79 pts. Exhibitor: Yife Tien; photographer: Brian Monk. Florida-Caribbean Judging
- [11] *Vanda* Gilbert Triboulet 'Orchid Whisperer' AM/AOS (*coerulea* x *tricolor*) 82 pts. Exhibitor: Carlos Ochoa; photographer: Brian Monk. Florida-Caribbean Judging
- [12] *Encyclia* Memoria Mirta Heineman 'Orchid Whisperer' AM/AOS (Renate Schmidt x Key Largo Jungle) 80 pts. Exhibitor: Carlos Ochoa; photographer: Brian Monk. Florida-Caribbean Judging
- [13] *Broanthevola* Lauren Sprock 'Faylin' AM/AOS (*Guaritonina* Why Not x *Brassavola grandiflora*) 85 pts. Exhibitor: Faylin Kindness; photographer: Claude W. Hamilton. Florida-Caribbean Judging
- [14] *Vandachostylis* Thai Noi 'Karina Motes' HCC/AOS (*Rhynchostylis coelestis* x *Vanda flabellata*) 78 pts. Exhibitor: Motes Orchids, Inc.; photographer: Brian Monk. Florida-Caribbean Judging
- [15] *Phalaenopsis* Chienlung Little Orange 'Lady Stella' AM/AOS (Yaphon Lobspis x Kuntrarti Rarashati) 82 pts. Exhibitor: Yife Tien; photographer: Brian Monk. Florida-Caribbean Judging
- [16] *Phalaenopsis* Samera 'Lady Stella' HCC/AOS (*bellina* x *violacea*) 79 pts. Exhibitor: Yife Tien; photographer: Brian Monk. Florida-Caribbean Judging



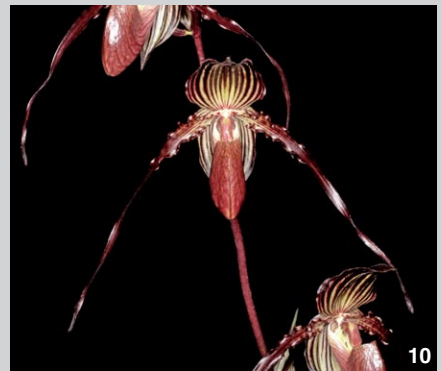


- [1] *Clowesetum* Mark Margolis 'Red Sunset' HCC/AOS (*Catasetum* Durval Ferreira x *Clowesia dodsoniana*) 79 pts. Exhibitor: Mark Margolis; photographer: Brian Monk. Florida-Caribbean Judging
- [2] *Catasetum* Doris's Choice '30 Years of Waiting' AM/AOS (*fimbriatum* x *pileatum*) 82 pts. Exhibitor: Mark Margolis; photographer: Brian Monk. Florida-Caribbean Judging
- [3] *Rhyncholaelia digbyana* 'Lady Stella' AM/AOS 84 pts. Exhibitor: Yife Tien; photographer: Carmen Johnston. Florida-Caribbean Judging
- [4] *Vanda* Golden Dawn 'Kirk' AM/AOS (Kultana Papillon x *tessellata*) 80 pts. Exhibitor: Kirk Hoo; photographer: Claude W. Hamilton. Florida-Caribbean Judging
- [5] *Brassocattleya* Theresa Ricci 'Pat's Surprise' AM/AOS (*Hippodamia* x *Cattleya aelandiae*) 86 pts. Exhibitor: Patricia and Michael DuQuesnay; photographer: Claude W. Hamilton. Florida-Caribbean Judging
- [6] *Phalaenopsis violacea* 'Kane' AM/AOS 82 pts. Exhibitor: Yife Tien; photographer: Carmen Johnston. Florida-Caribbean Judging
- [7] *Clowesetum* Sandy Kasner 'Ingrid Isac' AM/AOS (*Clowesia dodsoniana* x *Catasetum Alexis Pardo*) 84 pts. Exhibitor: Mark Margolis; photographer: Brian Monk. Florida-Caribbean Judging
- [8] *Cattleytonia* Memoria Michael Davis 'Sandra Walters' AM/AOS (*Broughtonia* Cayman x Marley Beckford) 85 pts. Exhibitor: Sandra Walters; photographer: Claude W. Hamilton. Florida-Caribbean Judging
- [9] *Dendrobium* Kirkland Nixon 'Chad' AM/AOS (Hamlyn Double Helix x Colleen Hopkinson) 81 pts. Exhibitor: Jennylyn Oates; photographer: Claude W. Hamilton. Florida-Caribbean Judging
- [10] *Tolumnia* Jairak Rainbow 'Coral' HCC/AOS (Tsiku Vanessa x Catherine Wilson) 77 pts. Exhibitor: Andrea Davidson; photographer: Claude W. Hamilton. Florida-Caribbean Judging
- [11] *Cattleytonia* Shirley Ann Craig 'Hamlyn' AM/AOS (Memoria Michael Davis x Marley Beckford) 81 pts. Exhibitor: Claude W. Hamilton; photographer: Claude W. Hamilton. Florida-Caribbean Judging
- [12] *Waironara* Tango Fire 'Auntie Alma' AM/AOS (*Perreiraara* Bangkok Sunset x *Renanthera storiei*) 82 pts. Exhibitor: Betty Chung; photographer: Claude W. Hamilton. Florida-Caribbean Judging
- [13] *Vandachostylis* Pine Rivers 'Kirk' AM/AOS (*Vanda* Peggy Foo x *Rhynchostylis coelestis*) 86 pts. Exhibitor: Kirk Hoo; photographer: Claude W. Hamilton. Florida-Caribbean Judging
- [14] *Vandachostylis* Roll on Red 'Memoria Georgie Miles' HCC/AOS (Crownfox Red Gem x *Vanda* Peggy Foo) 78 pts. Exhibitor: Joy Miles; photographer: Claude W. Hamilton. Florida-Caribbean Judging
- [15] *Vanda* Spotted Denis 'Hamlyn' AM/AOS (*denisoniana* x Suksamran Spots) 84 pts. Exhibitor: Claude W. Hamilton; photographer: Claude W. Hamilton. Florida-Caribbean Judging
- [16] *Waironara* Tango Fire (*Perreiraara* Bangkok Sunset 'Chao Praya' x *Renanthera storiei* 'Chao Praya') AQ/AOS. Exhibitors: Kirk Hoo and Betty Chung; Hybridizer Chao Praya Orchids; photographer: Claude W. Hamilton. Florida-Caribbean Judging





- [1] *Dendrobium gouldii* 'Hamlyn 2' CCE/AOS 92 pts. Exhibitor: Claude W. Hamilton; photographer: Claude W. Hamilton. Florida-Caribbean Judging
- [2] *Bullara* Redland Sunset 'Hamlyn' HCC/AOS (*Rhyncattleanthe* Orange Nuggett x *Encyclia cordigera*) 78 pts. Exhibitor: Claude W. Hamilton; photographer: Claude W. Hamilton. Florida-Caribbean Judging
- [3] *Aranda* Dinah Shore 'Eileen Williams' AM/AOS (Christine x *Vanda* Yip Sum Wah) 86 pts. Exhibitor: Eileen Williams; photographer: Claude W. Hamilton Florida-Caribbean Judging
- [4] *Vanda* Jamaica Pixie 'Jamaica' FCC/AOS (Jennie Gold x *lamellata*) 92 pts. Exhibitor: Claude W. Hamilton; photographer: Claude W. Hamilton. Florida-Caribbean Judging
- [5] *Bulbophyllum fascinator* 'Whisper Adoribil Gift' AM/AOS 82 pts. Exhibitor: Laura and Wes Newton; photographer: Kay Clark. Florida North-Central Judging
- [6] *Guaricattonia* Michael Sampson 'Hamstrudy' CCM-AM/AOS (Ernest Cromwell x Starrlyn) 88-82 pts. Exhibitor: Ernest & Monica Hamilton; photographer: Kirk Hoo. Florida-Caribbean Judging
- [7] *Myrmecophila thomsoniana* 'Hamlyn' HCC/AOS 78 pts. Exhibitor: Claude W. Hamilton; photographer: Claude W. Hamilton. Florida-Caribbean Judging
- [8] *Vanda* M. V. Tannins 'Kirk' AM/AOS (*lamellata* x Memoria Thianchai) 82 pts. Exhibitor: Kirk Hoo; photographer: Claude W. Hamilton. Florida-Caribbean Judging
- [9] *Cattleytonia* Jamaica Joy 'Adrian Hamilton' AM/AOS (*Broughtonia sanguinea* x Capri) 83 pts. Exhibitor: Claude W. Hamilton; photographer: Claude W. Hamilton. Florida-Caribbean Judging
- [10] *Encyclia* Orchid Jungle 'Bill's Weed' AM/AOS (*alata* x *phoenicea*) 86 pts. Exhibitor: Bill Nunez; photographer: Kay Clark. Florida North-Central Judging
- [11] *Broughtonia* Hamlyn's Masterpiece 'Jamaica' CCE/AOS (*sanguinea* x Kings-ton) 92 pts. Exhibitor: Claude W. Hamilton; photographer: Claude W. Hamilton. Florida-Caribbean Judging
- [12] *Bulbophyllum romyi* 'Whisper Holy Schmackeroly' AM/AOS 84 pts. Exhibitor: Laura and Wes Newton; photographer: Wes Newton. Florida North-Central Judging
- [13] *Epidendrum* My Crown 'Glenmar' HCC/AOS (*ilense* x *coronatum*) 75 pts. Exhibitor: Glenn Sponholtz; photographer: H. A. Russell III. Florida North-Central Judging
- [14] *Vanda* Siriwan 'Janis' Pink Delight' AM/AOS (Tubtim Velvet x Muang Thong) 83 pts. Exhibitor: Charles Whetstone; photographer: Kay Clark. Florida North-Central Judging
- [15] *Liparis grossa* 'Whisper's Gift' CCE/AOS 91 pts. Exhibitor: Bill Thoms and Doris Dukes; photographer: Kay Clark. Florida North-Central Judging
- [16] *Encyvola* Atro-Stars 'Withner's Suggestion' HCC/AOS (*Brassavola* Little Stars x *Encyclia atorubens*) 79 pts. Exhibitor: Jim Roberts Florida SunCoast Orchids; photographer: Kay Clark. Florida North-Central Judging





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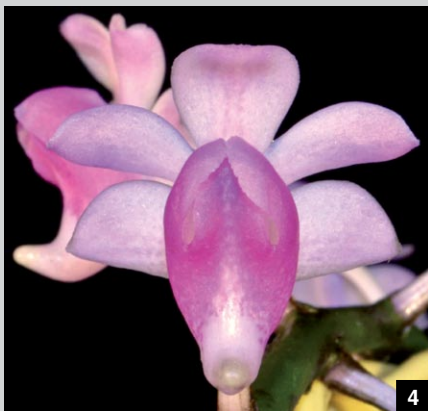
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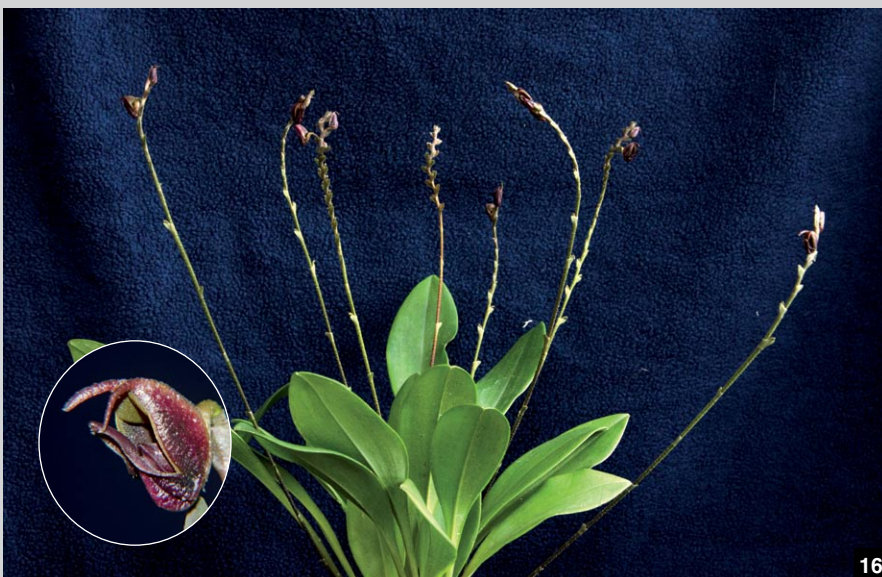
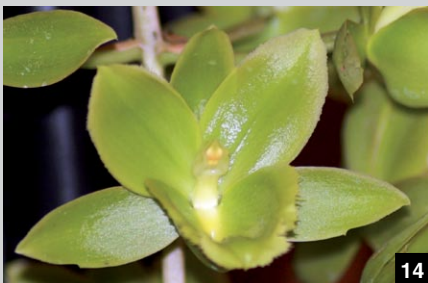
- [1] *Paphiopedilum* Springwater Black Hole 'Springwater' AM/AOS (Hsinying Web Pie x Macabre) 83 pts. Exhibitor: Springwater Orchids and Thanh Nguyen; photographer: Wes Newton. Florida North-Central Judging
- [2] *Cahuzacara* Bredren's Cherie 'Bredren' AM/AOS (*Rhyncattleanthe* Cherry Suisse x *Brassavola subulifolia*) 84 pts. Exhibitor: Bredren Orchids and Phillip Hamilton; photographer: Wes Newton. Florida North-Central Judging
- [3] *Paphiopedilum* Magical Fred 'Slipper Zone Tall Tails' HCC/AOS (Magic Pops x Friedrich von Hayek) 79 pts. Exhibitor: Lehua Orchids; photographer: Glen Barfield. Hawaii Judging
- [4] *Bulbophyllum amplebracteatum* subsp. *carunculatum* 'Jungle Mist' HCC/AOS 78 pts. Exhibitor: Jungle Mist Orchids; photographer: Glen Barfield. Hawaii Judging
- [5] *Phalaenopsis* Bredren's Pickney 'Bredren' HCC/AOS (LD's Bear King x Tying Shin Golden Eagle) 77 pts. Exhibitor: Bredren Orchids and Phillip Hamilton; photographer: Wes Newton. Florida North-Central Judging
- [6] *Cattleya* Fordyce's Circle 'Hot Vision' AM/AOS (Circle of Life x Vallezac) 85 pts. Exhibitor: New Vision Orchids; photographer: Lynn O'Shaughnessy. Great Lakes Judging
- [7] *Paphiopedilum* Julia Koch 'Sonya' AM/AOS (President Fred x Macabre) 81 pts. Exhibitor: Gyorgy Nagy; photographer: Lynn O'Shaughnessy. Great Lakes Judging
- [8] *Catasetum sanguineum* 'Rare Earth Orchids' AM/AOS 84 pts. Exhibitor: Steve Moffitt; photographer: Malcolm McCorquodale. Houston Judging
- [9] *Paphiopedilum* Windswept Blackhawk 'Windswept's Trifecta' HCC/AOS (Lyro Blackhawk x Michael Koopowitz) 76 pts. Exhibitor: Windswept in Time Orchids; photographer: Lynn O'Shaughnessy. Great Lakes Judging
- [10] *Paphiopedilum* Windswept Laces 'Cordovan Laces' AM/AOS (William Ambler x Johanna Burkhardt) 85 pts. Exhibitor: Windswept in Time Orchids; photographer: Lynn O'Shaughnessy. Great Lakes Judging
- [11] *Paphiopedilum* Springwater Emerald 'Springwater' HCC/AOS (In-Charm Gold x Tomatillo) 76 pts. Exhibitor: Springwater Orchids & Thanh Nguyen; photographer: Wes Newton. Florida North-Central Judging
- [12] *Paphiopedilum* Shadow Walker 'Windswept's Shadow' AM/AOS (*liemianum* x Johanna Burkhardt) 80 pts. Exhibitor: Windswept in Time Orchids; photographer: Lynn O'Shaughnessy. Great Lakes Judging
- [13] *Bulbophyllum mandibulare* 'A-doribil' CCM/AOS 83 pts. Exhibitor: Bill Thoms & Doris Dukes; photographer: Wes Newton. Florida North-Central Judging
- [14] *Paphiopedilum* Millennium World 'Kathleen' AM/AOS (Millennium x Dot World) 81 pts. Exhibitor: William Rogerson; photographer: Mei Ling Clemens. Great Lakes Judging
- [15] *Cattleya perrinii* 'Isabel Rosalia' AM/AOS 83 pts. Exhibitor: Ben Oliveros and Orchid Eros; photographer: Glen Barfield. Hawaii Judging
- [16] *Cattlianthe* Cherry Song 'Sasha's Peaceful Joy' HCC/AOS (Candy Tuft x *Cattleya walkeriana*) 79 pts. Exhibitor: Joe & Joyce Peterson; photographer: Lynn O'Shaughnessy. Great Lakes Judging





- [1] *Pleurothallis cardiostola* 'Bryon Rinke' CCE/AOS 90 pts. Exhibitor: Bryon K. Rinke; photographer: Bryon Rinke. Great Plains Judging
- [2] *Cattleya pumila* 'AWZ USA' HCC/AOS 78 pts. Exhibitor: Ben Oliveros and Orchid Eros; photographer: Glen Barfield. Hawaii Judging
- [3] *Paphiopedilum* Krull's Lace 'Burgundy Lace' HCC/AOS (Fanaticum x *rothschildianum*) 77 pts. Exhibitor: Leon Schooler; photographer: Nathan Bell. Mid-America Judging
- [4] *Cycnodes* Wild Sunsets 'Claire' AM/AOS (*Cycnoches lehmannii* x *Mormodes* Wild Rainbow) 82 pts. Exhibitor: Steve Moffitt; photographer: Malcolm McCorquodale. Houston Judging
- [5] *Paphiopedilum* Fred's Magical Bean 'Slipper Zone Bruiser' HCC/AOS (Fred's Moon x Fred's Magic) 76 pts. Exhibitor: Lehua Orchids; photographer: Glen Barfield. Hawaii Judging
- [6] *Paphiopedilum* Straight Pass 'Slipper Zone Spot On' AM/AOS (Straight Flush x Luther Pass) 81 pts. Exhibitor: Lehua Orchids; photographer: Glen Barfield. Hawaii Judging
- [7] *Paphiopedilum* Magically Superb 'Slipper Zone Gallantly Red' AM/AOS (Magic Pops x Superb Fred) 82 pts. Exhibitor: Lehua Orchids; photographer: Glen Barfield. Hawaii Judging
- [8] *Fredclarkeara* After Midnight 'Miguel' HCC/AOS (After Dark x *Catasetum* Mark Dimmitt) 76 pts. Exhibitor: Steve Moffitt; photographer: Malcolm McCorquodale. Houston Judging
- [9] *Paphiopedilum* Luna Hijinks 'Slipper Zone Over Allowance' AM/AOS (Luna Magic x Luna Shadow) 85 pts. Exhibitor: Lehua Orchids; photographer: Glen Barfield. Hawaii Judging
- [10] *Bryobium hyacinthoides* 'Kinsley' HCC/AOS 76 pts. Exhibitor: Joe Abendroth; photographer: Nancy Rowe. Houston Judging
- [11] *Fredclarkeara* Kelly Longley 'Justin' HCC/AOS (*Mormodia* Painted Desert x *Catasetum* José Abalo) 77 pts. Exhibitor: Steve Moffitt; photographer: Malcolm McCorquodale. Houston Judging
- [12] *Fredclarkeara* Kelly Longley 'Louisi-ana' AM/AOS (*Mormodia* Painted Desert x *Catasetum* José Abalo) 82 pts. Exhibitor: Al Taylor; photographer: Malcolm McCorquodale. Houston Judging
- [13] *Catasetum* Lata Laxman 'Epijim' AM/AOS (Frilly Doris x Jose Abalo) 82 pts. Exhibitor: James Jeansonne; photographer: Nancy Rowe. Houston Judging
- [14] *Cattleya trianae* 'Full Moon' AM/AOS 85 pts. Exhibitor: Ben Oliveros and Orchid Eros; photographer: Glen Barfield. Hawaii Judging
- [15] *Holcoglossum wangii* 'Martin Zeh' CCM/AOS 84 pts. Exhibitor: Meta Flanagan; photographer: Nancy Rowe. Houston Judging
- [16] *Paphiopedilum* Ghostly Contrasts AQ/AOS (Magical Contrasts 'Dorsal Clear' x Macabre Contrasts 'Lehua Frank's Druthers'). Exhibitor and Hybridizer: Lehua Orchids; photographer: Glen Barfield. Hawaii Judging





- [1] *Dimorphorchis lowii* 'Sookie's Surprise' HCC/AOS 78 pts. Exhibitor: Helen Hersh; photographer: Maurice Marietti. Mid-Atlantic Judging
- [2] *Paphiopedilum* Jersey Sunset 'Lucky Charm' AM/AOS (Hamana Samson x Jenna Marie) 80 pts. Exhibitor: Sergey Skoropad; photographer: Bayard Saraduke. Mid-Atlantic Judging
- [3] *Clowesetum* Donna Ballard 'Mr. Kevin' AM/AOS (*Clowesia* Rebecca Northern x *Catasetum kleberianum*) 83 pts. Exhibitor: Sarah Santucci; photographer: Bayard Saraduke. Mid-Atlantic Judging
- [4] *Aerides magnifica* 'Erika's Surprise Calayanensis' HCC/AOS 77 pts. Exhibitor: Melissa Garner; photographer: Melissa Garner. Mid-America Judging
- [5] *Paphiopedilum* Dark Child 'M&M Orchids' HCC/AOS (Dark Master x *rothschildianum*) 79 pts. Exhibitor: Matt and Michelle Jaenke; photographer: Melissa Garner. Mid-America Judging
- [6] *Cattleya crispa* 'M&M Orchids Candidissima' HCC/AOS 76 pts. Exhibitor: Matt and Michelle Jaenke; photographer: Melissa Garner. Mid-America Judging
- [7] *Dendrochilum niveum* 'Windy Hill' CCE/AOS 93 pts. Exhibitor: Marilyn LeDoux; photographer: Melissa Garner. Mid-America Judging
- [8] *Paphiopedilum* Jeweled Moon 'Slipper Zone Tall Stuff' HCC/AOS (Macabre Moon x Egret's Jewel) 77 pts. Exhibitor: Lehua Orchids; photographer: Glen Barfield. Hawaii Judging
- [9] *Coelia bella* 'Stunning' AM/AOS 80 pts. Exhibitor: Joan and David Rosenfeld; photographer: Bayard Saraduke. Mid-Atlantic Judging
- [10] *Dendrobium* Green Flash 'Green With Envy' CCM-AM/AOS (André Millar x *convolutum*) 86-80 pts. Exhibitor: Joan and David Rosenfeld; photographer: Bayard Saraduke. Mid-Atlantic Judging
- [11] *Phragmipedium* Glen Decker 'Julia Hueichucura' HCC/AOS (*Jason* Fischer x *kovachii*) 79 pts. Exhibitor: David Anderson; photographer: Melissa Garner. Mid-America Judging
- [12] *Paphiopedilum* Barbi's White Satin 'Windy Hill' HCC/AOS (*barbigerum* x White Knight) 75 pts. Exhibitor: Marilyn LeDoux; photographer: Melissa Garner. Mid-America Judging
- [13] *Zygolum* Louisendorf grex 'Rhein Clown' AM/AOS (*Zygosepalum labiosum* x *Zygopetalum* Artur Elle) 83 pts. Exhibitor: Joan and David Rosenfeld; photographer: Bayard Saraduke. Mid-Atlantic Judging
- [14] *Fredclarkeara* Turning Point 'Essie Barnes' AM/AOS (*Mormodia* Lime Tiger x *Catasetum expansum*) 81 pts. Exhibitor: Dennis Wollard; photographer: Nancy Rowe. Houston Judging
- [15] *Rhyncholaeliocattleya* Paradise Rose 'Linwood' AM/AOS (*Cattleya* Pink Doll x Toshie Aoki) 83 pts. Exhibitor: Mark Nelson Werther; photographer: Bayard Saraduke. Mid-Atlantic Judging
- [16] *Scaphosepalum parviflorum* 'Patrick Raymond' CBR/AOS. Exhibitor: Laura Bonnell; photographer: Thang Dam. Toronto Judging





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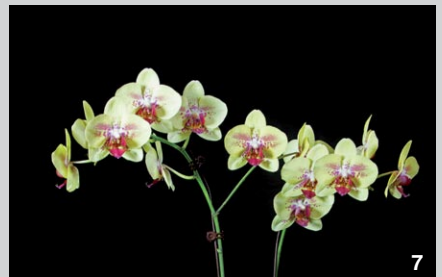


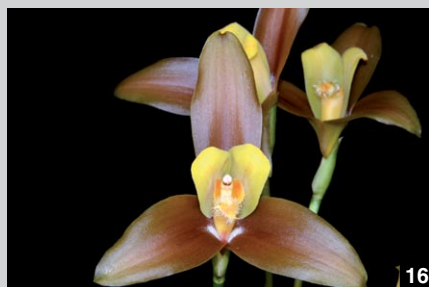
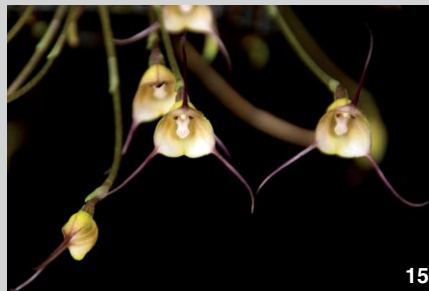
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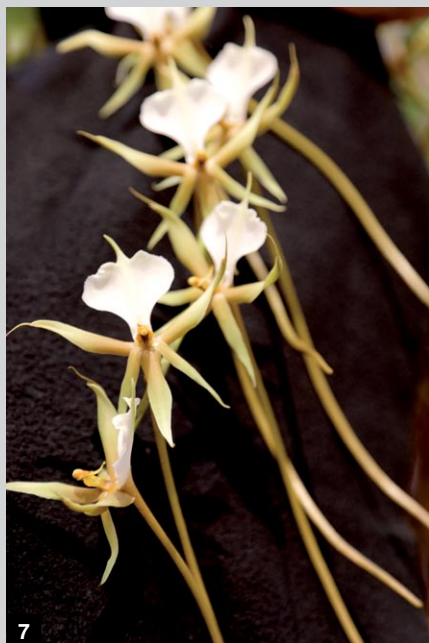
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- [1] *Cymbidium whiteae* 'Aka' CHM/AOS 81 pts. Exhibitor: Jardin botanique de Montréal; photographer: Thang Dam. Toronto Judging
- [2] *Coelogyne trinervis* 'Jardin botanique de Montréal' AM/AOS 81 pts. Exhibitor: Jardin botanique de Montréal; photographer: Thang Dam. Toronto Judging
- [3] *Holcoglossum tsii* 'J & L' CHM/AOS 82 pts. Exhibitor: J & L Orchids; photographer: Charles Marden Fitch. Northeast Judging
- [4] *Pectabeneria Perseus* 'Judy' AM/AOS (*Pecteilis hawkesiana* x *Habenaria medusa*) 82 pts. Exhibitor: Leon Glicenstein; photographer: Bryan Ramsay. National Capital Judging
- [5] *Phragmipedium Asendorf Rose* 'Penns Creek' AM/AOS (Pink Panther x *fischeri*) 82 pts. Exhibitor: Woodstream Orchids; photographer: Bryan Ramsay. National Capital Judging
- [6] *Cymbidium Shirley Dunkelberger* 'Special Lady' HCC/AOS (*tracyanum* x *seidentadenii*) 79 pts. Exhibitor: John Whiting; photographer: Bryan Ramsay. National Capital Judging
- [7] *Phragmipedium andreettae* 'Penns Creek' CHM/AOS 84 pts. Exhibitor: Woodstream Orchids; photographer: Kim Frankenfield. National Capital Judging
- [8] *Cymbidium seidentadenii* 'Harbinger' HCC/AOS 78 pts. Exhibitor: John Dunkelberger; photographer: Bryan Ramsay. National Capital Judging
- [9] *Dendrobium Patricia Johnson* 'Memoria Curt Johnson' HCC/AOS (*Jaquelyn Concert* x *strebloceras*) 78 pts. Exhibitor: William Stender; photographer: Maurice Garvey. Northeast Judging
- [10] *Lepanthes erythrocles* 'Fond Memories' CHM/AOS 83 pts. Exhibitor: Cordelia Head; photographer: Robert Hesse. Northeast Judging
- [11] *Oberonia padangensis* 'Turnberry' CHM/AOS 83 pts. Exhibitor: David Smith; photographer: Bryan Ramsay. National Capital Judging
- [12] *Phalaenopsis Lin's Genki* 'FM 5030' AM/AOS (*Sogo Genki* x *Leopard Prince*) 84 pts. Exhibitor: Fang Mei Orchids; photographer: Yeh, Jen-Chieh. Pacific Central Judging
- [13] *Dendrobium lampongense* 'Irene' CHM/AOS 83 pts. Exhibitor: Al and Irene Messina; photographer: Maurice Garvey. Northeast Judging
- [14] *Cymbidium Ken Siew* 'Santa Barbara' HCC/AOS (*erythraeum* x *tracyanum*) 77 pts. Exhibitor: Sylvia Darr; photographer: Ken Jacobsen. Pacific Central Judging
- [15] *Phalaenopsis Fangmei Dream Wedding* 'FM 1301' HCC/AOS (*Mount Lip* x *Yu Pin Easter Island*) 78 pts. Exhibitor: Fang Mei Orchids; photographer: Yeh, Jen-Chieh. Pacific Central Judging
- [16] *Maxillaria variabilis* 'Wells' Acres' CCM-CHM/AOS 84-85 pts. Exhibitor: Deborah Robinson; photographer: Cheryl Langseth. Northeast Judging





- [1] *Angraecum eburneum* subsp. *giryamae* '4N Nursery' CCE/AOS 99 pts. Exhibitor: 4N Orchids; photographer: Yeh, Jen-Chieh. Pacific Central Judging
- [2] *Phalaenopsis* Fangmei Girl 'FM 7330' AM/AOS (Unimax Waltz x Fong-Tien's Elegant Lady) 81 pts. Exhibitor: Fang Mei Orchids; photographer: Yeh, Jen-Chieh. Pacific Central Judging
- [3] *Phalaenopsis* Fangmei Lucky Song 'FM 1378' HCC/AOS (Tiannong Lucky x I-Hsin Song) 76 pts. Exhibitor: Fang Mei Orchids; photographer: Yeh, Jen-Chieh. Pacific Central Judging
- [4] *Phalaenopsis* Fangmei Dream Lip 'FM 7136' HCC/AOS (Fangmei Dream Wedding x Fangmei Black Piano) 76 pts. Exhibitor: Fang Mei Orchids; photographer: Yeh, Jen-Chieh. Pacific Central Judging
- [5] *Phalaenopsis* Wonderful Girl Coco 'AAM5060D' AM/AOS (OX Spot Queen x HW-7) 82 pts. Exhibitor: 3H Farm LLC, Taiwan Branch; photographer: Yeh, Jen-Chieh. Pacific Central Judging
- [6] *Paphiopedilum* Doya Green Prince 'DY #132' AM/AOS (Hsinying Citron x In-Charm Silver Bell) 87 pts. Exhibitor: Doya Orchids; photographer: Yeh, Jen-Chieh. Pacific Central Judging
- [7] *Phalaenopsis* Fangmei A Hot 'FM 5035' HCC/AOS (Tai Lin Red Angel x Dou-dii Golden Princess) 77 pts. Exhibitor: Fang Mei Orchids; photographer: Yeh, Jen-Chieh. Pacific Central Judging
- [8] *Dendrobium* Burana Pink '4N Nursery' FCC-CCE/AOS (Daflou x Burana White) 91-95 pts. Exhibitor: 4N Orchids; photographer: Yeh, Jen-Chieh. Pacific Central Judging
- [9] *Bulbophyllum* Hans' Delight 'G. D. Ladybug' CCM/AOS (*putidum* x *cruentum*) 86 pts. Exhibitor: G. D. Orchids; photographer: Yeh, Jen-Chieh. Pacific Central Judging
- [10] *Oncidium* Rafael Gomez 'Golden Gate' AM/AOS (Petit Port x Geneva Red) 82 pts. Exhibitor: Golden Gate Orchids; photographer: Ken Jacobsen. Pacific Central Judging
- [11] *Cycnoches warszewiczii* 'SVO Jumbo' AM/AOS 84 pts. Exhibitor: Fred Clarke; photographer: Arnold Gum. Pacific South Judging
- [12] *Dendrobium* Fuchs Garnet '4N Nursery' AM-CCE/AOS (Jaquelyn Concert x Lady Charm) 84-91 pts. Exhibitor: 4N Orchids; photographer: Yeh, Jen-Chieh. Pacific Central Judging
- [13] *Cattleya cernua* '4N Nursery' AM/AOS 82 pts. Exhibitor: 4N Orchids; photographer: Yeh, Jen-Chieh. Pacific Central Judging
- [14] *Paphiopedilum* Antrim 'Luminous' AM/AOS (Limerick x Golden Acres) 84 pts. Exhibitor: Hillside Orchids; photographer: Ross Leach. Pacific Northwest Judging
- [15] *Dracula mantissa* 'Terk' CBR/AOS. Exhibitor: Daniella Jasen; photographer: Ross Leach. Pacific Northwest Judging
- [16] *Lycaste lasioglossa* 'Reese Langland' HCC/AOS 75 pts. Exhibitor: Chaunie Langland; photographer: Chaunie Langland. Pacific Central Judging





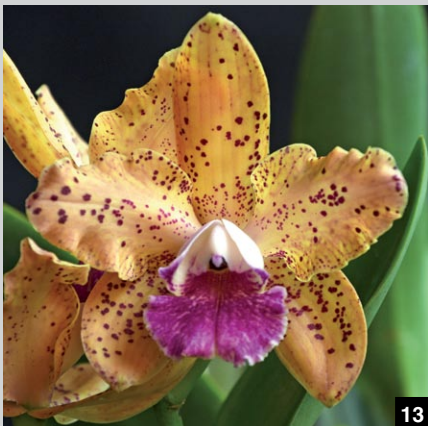
- [1] *Paphiopedilum* Sun Stone 'Hillsview' AM/AOS (Autumn Sun x Giantstone) 80 pts. Exhibitor: Hillsview Orchids; photographer: Ross Leach. Pacific Northwest Judging
- [2] *Paphiopedilum* Don's Lily 'Tiger' AM/AOS (Don Egger x Luther Pass) 82 pts. Exhibitor: Hillsview Gardens; photographer: Ross Leach. Pacific Northwest Judging
- [3] *Rhyncattleanthe* ChocoBerry Fondue 'SVO Bouquet' HCC/AOS (*Cattlianthe* Chocolate Drop x *Rhyncholaeliocattleya* Ryo Iwata) 78 pts. Exhibitor: Ruben Colmenares; photographer: Arthur Pinkers. Pacific South Judging
- [4] *Rhyncholaeliocattleya* Cherry Ripe 'Angela' AM/AOS (Lawless Walküre x *Cattleya* Circle of Life) 80 pts. Exhibitor: Outhay Viengkhou; photographer: Arthur Pinkers. Pacific South Judging
- [5] *Bulbophyllum lasiochilum* 'Katai's Little Gem' AM/AOS 80 pts. Exhibitor: Alfred Hockenmaier; photographer: Arthur Pinkers. Pacific South Judging
- [6] *Catasetum spitzii* 'SVO Burnished Gold' AM/AOS 83 pts. Exhibitor: Fred Clarke; photographer: Arnold Gum. Pacific South Judging
- [7] *Plectrelminthus caudatus* 'Alfred's Delight' AM/AOS 82 pts. Exhibitor: Alfred Hockenmaier; photographer: Arthur Pinkers. Pacific South Judging
- [8] *Catasetum* Lata Laxman 'Sophia' AM/AOS (Frilly Doris x Jose Abalo) 81 pts. Exhibitor: Charles Fouquette; photographer: Arnold Gum. Pacific South Judging
- [9] *Fredclarkeara* Dark Matter 'Sunset Valley Orchids' AM/AOS (After Dark x *Catasetum* Orchidglade) 82 pts. Exhibitor: Fred Clarke; photographer: Arnold Gum. Pacific South Judging
- [10] *Laelia halbingeriana* 'Leucadia' AM/AOS 82 pts. Exhibitor: Cal-Orchid, Inc.; photographer: Arthur Pinkers. Pacific South Judging
- [11] *Cymbidium* Miami Vice 'Sycamore Creek' HCC/AOS (Odd Rod x Pacific Sparkle) 79 pts. Exhibitor: Bill Robson; photographer: Larry Vierheilg. Pacific South Judging
- [12] *Cymbidium wilsonii* 'Mukoyama's' CHM/AOS 82 pts. Exhibitor: Weegie Caughlan; photographer: Arthur Pinkers. Pacific South Judging
- [13] *Cattlianthe* Sandra Laura 'Reina Oaxaqueña' AM/AOS (Pink Treasure x Orchidglade) 80 pts. Exhibitor: Jose Carlos Lopez; photographer: Ramon de los Santos. Pacific South Judging
- [14] *Rhyncholaeliocattleya* Michael Tomihama 'Memoria Dame Joan Forties' HCC/AOS (*Cattleya* Circle of Life x Ryo Iwata) 76 pts. Exhibitor: Joey Ambriz; photographer: Larry Vierheilg. Pacific South Judging
- [15] *Epidendrum* Little Miss Sunshine 'Gayle's Sunburst' AM/AOS (*xanthinum* x *magnoliae*) 85 pts. Exhibitor: Gayle Brodie; photographer: Larry Vierheilg. Pacific South Judging
- [16] *Clowesia* Rebecca Northen 'Jeff's Baby' CCE/AOS (Grace Dunn x *rosea*) 90 pts. Exhibitor: Gold Country Orchids; photographer: Ramon de los Santos. Pacific South Judging





- [1] *Cymbidium kanran* 'Hu Shan Su' HCC/AOS 76 pts. Exhibitor: Baozhong Zhu; photographer: Arthur Pinkers. Pacific South Judging
- [2] *Volkertara* Fiesta del Sol 'Sunset Valley Orchids' HCC/AOS (*Rhynthonleya* Krull-Smith x *Cattlianthe* Golden Wax) 79 pts. Exhibitor: Fred Clarke; photographer: Arthur Pinkers. Pacific South Judging
- [3] *Cattleya maxima* 'Chadwick's Dark' AM/AOS 83 pts. Exhibitor: Myriam Pereira; photographer: Irma Saldaña. Puerto Rico Judging
- [4] *Dendrobium* Micro Chip 'Percy's Orchids' HCC/AOS (*normanbyense* x *aberrans*) 77 pts. Exhibitor: Myriam Pereira; photographer: Irma Saldaña. Puerto Rico Judging
- [5] *Dendrobium* Minotauro 'Machiavelli' HCC/AOS (*mirbelianum* x *strebloceras*) 79 pts. Exhibitor: René E. Garcia; photographer: Irma Saldaña. Puerto Rico Judging
- [6] *Dendrobium* Bruce Gordon 'Alien vs. Predator' AM/AOS (*alexandrae* x *eximium*) 82 pts. Exhibitor: Jose Fernandez; photographer: Irma Saldaña. Puerto Rico Judging
- [7] *Mormodes* Aftermath 'SVO Nuclear Fallout' AM/AOS (Midnight Hooker x Mark Mills) 82 pts. Exhibitor: Fred Clarke; photographer: Arthur Pinkers. Pacific South Judging
- [8] *Phalaenopsis tetraspis* f. *christiana* 'Blue Lip' JC/AOS. Exhibitor: Norman's Orchids; photographer: Arthur Pinkers. Pacific South Judging
- [9] *Cycnodes* Troublemaker 'SVO Big Trouble' AM/AOS (*Spotted Hornet* x *Cycnoches warszewiczii*) 80 pts. Exhibitor: Fred Clarke; photographer: Arthur Pinkers. Pacific South Judging
- [10] *Cycnodes* Troublemaker 'SVO Little Trouble' HCC/AOS (*Spotted Hornet* x *Cycnoches warszewiczii*) 77 pts. Exhibitor: Fred Clarke; photographer: Arthur Pinkers. Pacific South Judging
- [11] *Rhynchostylis gigantea* 'Paraíso Tropical' AM/AOS 82 pts. Exhibitor: Carlos Fighetti; photographer: Irma Saldaña. Puerto Rico Judging
- [12] *Cattleya* Beaumesnil 'Juan José' FCC/AOS (*Culminant* x *Ioddigesii*) 91 pts. Exhibitor: Juan J. Zuñiga; photographer: Jorge Enrique Céspedes Trigueros. Puerto Rico Judging
- [13] *Guarianthe skinneri* (hort. var. *oculata*) 'Carlos Granados' AM/AOS 84 pts. Exhibitor: Carlos Granados; photographer: Jorge Enrique Céspedes Trigueros. Puerto Rico Judging
- [14] *Cattleya schilleriana* 'Palmares' FCC/AOS 90pts. Exhibitor: Alejandro Rodríguez Cheung; photographer: Jorge Enrique Céspedes Trigueros. Puerto Rico Judging
- [15] *Guarianthe skinneri* 'Magdalena Ledezma' FCC/AOS 91 pts. Exhibitor: Magdalena Ledezma; photographer: Jorge Enrique Céspedes Trigueros. Puerto Rico Judging
- [16] *Guarianthe skinneri* ('Carpintería' FCC/AOS x 'Angela de Alvarenga') AQ/AOS. Exhibitor and hybridizer: Alejandro Rodríguez Cheung; photographer: Jorge Enrique Céspedes Trigueros. Puerto Rico Judging





- [1] *Guarianthe skinneri* 'Alejandro Rodríguez' AM/AOS 82 pts. Exhibitor: Alejandro Rodríguez Cheung; photographer: Jorge Enrique Céspedes Trigueros. Puerto Rico Judging
- [2] *Guarianthe skinneri* 'Juan José Zuñiga' AM/AOS 83 pts. Exhibitor: Alejandro Rodríguez Cheung; photographer: Jorge Enrique Céspedes Trigueros. Puerto Rico Judging
- [3] *Cattleya lueddemanniana* f. *alba* 'Carlos Solís' AM/AOS 83 pts. Exhibitor: Carlos Solís; photographer: Jorge Enrique Céspedes Trigueros. Puerto Rico Judging
- [4] *Guarianthe skinneri* (Rosea) 'José Guillermo' AM/AOS 83 pts. Exhibitor: Javier Delgado; photographer: Jorge Enrique Céspedes Trigueros. Puerto Rico Judging
- [5] *Guarianthe skinneri* 'Francisco Quesada' AM/AOS 84 pts. Exhibitor: Emanuel Quesada; photographer: Jorge Enrique Céspedes Trigueros. Puerto Rico Judging
- [6] *Cattleya violacea* 'Carlos Magdiel' HCC/AOS 77 pts. Exhibitor: Carlos Granados; photographer: Jorge Enrique Céspedes Trigueros. Puerto Rico Judging
- [7] *Guarianthe skinneri* f. *alba* 'Consuelo Jara' AM/AOS 83 pts. Exhibitor: Juan J. Zuñiga; photographer: Jorge Enrique Céspedes Trigueros. Puerto Rico Judging
- [8] *Oncidesa Hwuluduen* Chameleon 'Stephany' AM/AOS (*Miltonidium* Pupukeya Sunset x *Gomesa echinata*) 83 pts. Exhibitor: Antonia Rojas; photographer: Jorge Enrique Céspedes Trigueros. Puerto Rico Judging
- [9] *Epidendrum centropetalum* (Alba) 'Margarita Rodríguez' CHM/AOS 84 pts. Exhibitor: Emanuel Quesada; photographer: Jorge Enrique Céspedes Trigueros. Puerto Rico Judging
- [10] *Maxillaria variabilis* 'Avenida Escazú' CCM/AOS 81 pts. Exhibitor: Asociación Orquideológica de Escazú; photographer: Jorge Enrique Céspedes Trigueros. Puerto Rico Judging
- [11] *Cattleya* Gloria Blake 'Alejandro Rodríguez' AM/AOS (*Florália's* Triumph x *Susan Holguin*) 83 pts. Exhibitor: Alejandro Rodríguez Cheung; photographer: Jorge Enrique Céspedes Trigueros. Puerto Rico Judging
- [12] *Rhyncholaeliocattleya* Kat Red Giant 'Jeremy Quesada' AM/AOS (*Chia Lin* x *Bryce Canyon*) 87 pts. Exhibitor: Alejandro Rodríguez Cheung; photographer: Jorge Enrique Céspedes Trigueros. Puerto Rico Judging
- [13] *Rhyncholaeliocattleya* Waianae Leopard 'Alejandro' AM/AOS (*Peach Cobbler* x *Cattleya Penny Kuroda* (*Penny Kuroda* Group)) 80 pts. Exhibitor: Alejandro Rodríguez Cheung; photographer: Jorge Enrique Céspedes Trigueros. Puerto Rico Judging
- [14] *Guarianthe skinneri* (hort. var. *oculata*) 'Memoria Guiselle Arias' AM/AOS 86 pts. Exhibitor: Christopher Arias; photographer: Jorge Enrique Céspedes Trigueros. Puerto Rico Judging
- [15] *Cattleya intermedia* var. *amethystina* 'Ofé' AM/AOS 84 pts. Exhibitor: Erick Arce; photographer: Jorge Enrique Céspedes Trigueros. Puerto Rico Judging
- [16] *Cattleya lawrenceana* 'Orosi' CCM/AOS 87 pts. Exhibitor: Erick Arce; photographer: Jorge Enrique Céspedes Trigueros. Puerto Rico Judging





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- [1] *Cattleya mossiae* f. *coerulea* 'Ivan Alejandro' AM/AOS 80 pts. Exhibitor: Carlos Granados; photographer: Jorge Enrique Céspedes Trigueros. Puerto Rico Judging
- [2] *Sarcoglottis smithii* 'Joshbri' AM/AOS 82 pts. Exhibitor: Carmen Flores; photographer: Jorge Enrique Céspedes Trigueros. Puerto Rico Judging
- [3] *Brassia gireoudiana* 'Any' AM/AOS 86 pts. Exhibitor: Carlos Siles; photographer: Jorge Enrique Céspedes Trigueros. Puerto Rico Judging
- [4] *Cattleya mossiae* var. *semi-alba* 'Alejandro' HCC/AOS 78 pts. Exhibitor: Jeremy Quesada; photographer: Jorge Enrique Céspedes Trigueros. Puerto Rico Judging
- [5] *Rhyncholaeliocattleya* Red Oconee 'Alejandro' AM/AOS (Red Crab x Oconee) 83 pts. Exhibitor: Alejandro Rodríguez Cheung; photographer: Jorge Enrique Céspedes Trigueros. Puerto Rico Judging
- [6] *Cattleya* Peckhaviensis 'Casa de Campo' AM/AOS (*aclandiae* x *schilleriana*) 85 pts. Exhibitor: Gustavo Barboza; photographer: Jorge Enrique Céspedes Trigueros. Puerto Rico Judging
- [7] *Stelis psilantha* 'Mariangel' CCM/AOS 82 pts. Exhibitor: Gerson Villalobos; photographer: Jorge Enrique Céspedes Trigueros. Puerto Rico Judging
- [8] *Cattleya harrisoniana* 'Amanda' AM/AOS 85 pts. Exhibitor: Erick Arce; photographer: Jorge Enrique Céspedes Trigueros. Puerto Rico Judging
- [9] *Miltonia moreliana* 'Samantha' AM/AOS 88 pts. Exhibitor: Alejandro Rodríguez Cheung; photographer: Jorge Enrique Céspedes Trigueros. Puerto Rico Judging
- [10] *Dendrobium* Santana 'Fabiola' CCM/AOS (*moniliforme* x *friedericksianum*) 82 pts. Exhibitor: Mireya Cordero; photographer: Jorge Enrique Céspedes Trigueros. Puerto Rico Judging
- [11] *Dendrobium* Memoria Myriam Pereira 'After María' AM/AOS (Jumbo Amino x Constance) 81 pts. Exhibitor: Jose Fernandez; photographer: Irma Saldaña. Puerto Rico Judging
- [12] *Prosthechea ionophlebia* 'Ana Cristina' AM/AOS 84 pts. Exhibitor: Jeremy Quesada; photographer: Jorge Enrique Céspedes Trigueros. Puerto Rico Judging
- [13] *Rhyncholaeliocattleya* Golden Cecil 'Ana Cristina' AM/AOS (Goldenzelle x Memoria Cecil Barrier) 86 pts. Exhibitor: Alejandro Rodríguez Cheung; photographer: Jorge Enrique Céspedes Trigueros. Puerto Rico Judging
- [14] *Isochilus carnosiflorus* 'ACO' AM/AOS 83 pts. Exhibitor: Asociación Costarricense de Orquideología; photographer: Jorge Enrique Céspedes Trigueros. Puerto Rico Judging
- [15] *Lepanthes sotoana* 'Los Cusingos' CHM/AOS 85 pts. Exhibitor: Jeremy Quesada; photographer: Jorge Enrique Céspedes Trigueros. Puerto Rico Judging
- [16] *Lycaste brevispatha* 'Jorge Elesbann' CCM/AOS 83 pts. Exhibitor: Jorge E. Blanco; photographer: Jorge Enrique Céspedes Trigueros. Puerto Rico Judging





- [1] *Specklinia grobyi* 'Katherine' CCM/AOS 87 pts. Exhibitor: Jenny Piedra; photographer: Jorge Enrique Céspedes Trigueros. Puerto Rico Judging
- [2] *Scaphyglottis micrantha* 'Gaby' CCM/AOS 87 pts. Exhibitor: Carmen Jiménez; photographer: Jorge Enrique Céspedes Trigueros. Puerto Rico Judging
- [3] *Miltonia moreliana* 'Doña Nena' FCC/AOS 90 pts. Exhibitor: Teresa Hernandez; photographer: Jorge Enrique Céspedes Trigueros. Puerto Rico Judging
- [4] *Rhyncattleanthe* Love Triangle 'Luis Llorens' HCC/AOS (*Rhyncholaeliocattleya* San Damiano (1) x *Cattlianthe* Chocolate Drop) 79 pts. Exhibitor: María Negrón-Carrasco; photographer: Irma Saldaña. Puerto Rico Judging
- [5] *Specklinia brighamii* 'Miryel Sofía' CHM/AOS 80 pts. Exhibitor: Noe Cisneros; photographer: Jorge Enrique Céspedes Trigueros. Puerto Rico Judging
- [6] *Xylobium colleyi* 'El Nazareno' CHM/AOS 82 pts. Exhibitor: Jeremy Quesada; photographer: Jorge Enrique Céspedes Trigueros. Puerto Rico Judging
- [7] *Dendrobium* Burana Sundae 'Ira de Castro Jacobs' AM/AOS (Kaneohe Beauty x Burana Sunshine) 81 pts. Exhibitor: Zoraida Jacobs; photographer: Debra Tryon. Puerto Rico Judging
- [8] *Papilionanda* Batram 'Julio David' AM/AOS (Mimi Palmer x *Vanda denisoniana*) 83 pts. Exhibitor: Dr. Julio David Rios; photographer: Irma Saldaña. Puerto Rico Judging
- [9] *Tolumnia prionochoila* 'Peter A.' CHM/AOS 82 pts. Exhibitor: Michelle Thurland Martínez; photographer: Debra Tryon. Puerto Rico Judging
- [10] *Brassocattleya* Kosh Wallis 'Paradise' HCC/AOS (*Brassavola* Little Stars x *Cattleya* Penny Kuroda (Caudebec Group)) 77 pts. Exhibitor: Iliana Hannah; photographer: Debra Tryon. Puerto Rico Judging
- [11] *Acineta densa* 'Finca Cerro Paldo Bandera Azul' HCC/AOS 78 pts. Exhibitor: Ronald Monge; photographer: Jorge Enrique Céspedes Trigueros. Puerto Rico Judging
- [12] *Cattleya mossiae* var. *semi-alba* ('Carlos Luis Granados' AM/AOS x 'María Natalia' AM/AOS) AQ/AOS. Exhibitor: Jeremy Quesada; hybridizer: Alejandro Rodriguez Cheung; photographer: Jorge Enrique Céspedes Trigueros. Puerto Rico Judging
- [13] *Stelis dressleri* 'Sara' CBR/AOS. Exhibitor: Jeremy Quesada; photographer: Jorge Enrique Céspedes Trigueros. Puerto Rico Judging
- [14] *Dendrobium capituliflorum* 'Gianna Fernández' CCM/AOS 83 pts. Exhibitor: Jose Fernandez; photographer: Irma Saldaña. Puerto Rico Judging
- [15] *Ludisia discolor* 'Sunshine' CCM/AOS 80 pts. Exhibitor: Joyce B. Richardson; photographer: Debra Tryon. Puerto Rico Judging





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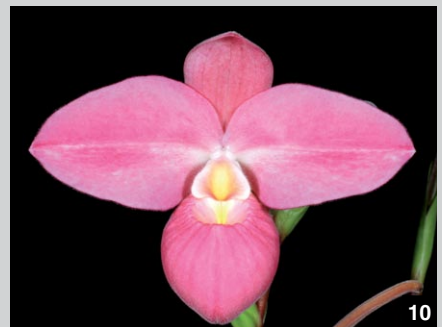


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- [1] *Myrmecophila thomsoniana* (Xanthisina) 'Dr. Nieves' CHM/AOS 81 pts. Exhibitor: Dr. Jose Nieves; photographer: Irma Saldaña. Puerto Rico Judging
- [2] *Barbosella prorepens* 'Mamá Enid' CCE/AOS 92 pts. Exhibitor: Norman Steller; photographer: Jorge Enrique Céspedes Trigueros. Puerto Rico Judging
- [3] *Rhyncholaeliocattleya* Jeremy Quesada 'Dayana' AM/AOS (*Cattleya* Horace x Memoria Cecil Barrier) 83 pts. Exhibitor: Jeremy Quesada; photographer: Jorge Enrique Céspedes Trigueros. Puerto Rico Judging
- [4] *Aliceara* Snowblind 'Sweet Spot' AM/AOS (*Oncidium* Black Diamond x Tropic Splendor) 81 pts. Exhibitor: Juanita Cotto; photographer: Esteban Rodríguez. Puerto Rico Judging
- [5] *Specklinia lanceola* 'Ericks' CCE/AOS 92 pts. Exhibitor: Norman Steller; photographer: Jorge Enrique Céspedes Trigueros. Puerto Rico Judging
- [6] *Cynoches warszewiczii* 'Zaida María' FCC/AOS 91 pts. Exhibitor: Carlos Rojas; photographer: Jorge Enrique Céspedes Trigueros. Puerto Rico Judging
- [7] *Cattleya bicolor* 'Alejandro Rodríguez' AM/AOS 84 pts. Exhibitor: Alejandro Rodríguez Cheung; photographer: Jorge Enrique Céspedes Trigueros. Puerto Rico Judging
- [8] *Rhyncholaeliocattleya* Carlos Granados Barquero 'Iván Alejandro' AM/AOS (Fred Stewart x Dinsmore) 82 pts. Exhibitor: Carlos Granados Barquero; photographer: Jorge Enrique Céspedes Trigueros. Puerto Rico Judging
- [9] *Rhyncholaeliocattleya* Golden Cecil 'Juan Luis Briceño' AM/AOS (Goldenzelle x Memoria Cecil Barrier) 83 pts. Exhibitor: Alejandro Rodríguez Cheung; photographer: Jorge Enrique Céspedes Trigueros. Puerto Rico Judging
- [10] *Rhyncholaeliocattleya* Golden Cecil 'Alejandro Rodríguez' AM/AOS (Goldenzelle x Memoria Cecil Barrier) 83 pts. Exhibitor: Alejandro Rodríguez Cheung; photographer: Jorge Enrique Céspedes Trigueros. Puerto Rico Judging
- [11] *Cattleya bicolor* 'Emanuel Quesada' AM/AOS 83 pts. Exhibitor: Emanuel Quesada; photographer: Jorge Enrique Céspedes Trigueros. Puerto Rico Judging
- [12] *Laelia anceps* 'María Isabel' AM/AOS 82 pts. Exhibitor: Abraham Bolaños; photographer: Jorge Enrique Céspedes Trigueros. Puerto Rico Judging
- [13] *Nidema boothii* 'Sara' CCM/AOS 85 pts. Exhibitor: María de los Angeles Mora; photographer: Jorge Enrique Céspedes Trigueros. Puerto Rico Judging
- [14] *Trichocentrum* Kendra Maria 'Amalia' CCM/AOS (Ollie Palmer x luridum) 85 pts. Exhibitor: Jeremy Quesada; photographer: Jorge Enrique Céspedes Trigueros. Puerto Rico Judging
- [15] *Stanhopea dodsoniana* 'Francisco Quesada' CHM-CCM/AOS 85-82 pts. Exhibitor: Emanuel Quesada; photographer: Jorge Enrique Céspedes Trigueros. Puerto Rico Judging
- [16] *Cattleya bicolor* ('Alejandro' x 'Car Mag') AQ/AOS. Exhibitor: Emanuel Quesada; hybridizer Alejandro Rodríguez Cheung; photographer: Jorge Enrique Céspedes Trigueros. Puerto Rico Judging





- [1] *Cattleya* Jackie Stidham 'Carlos Granados' AM/AOS (Canhamiana x *Ioddigesii*) 84 pts. Exhibitor: Carlos Granados Barquero; photographer: Jorge Enrique Céspedes Trigueros. Puerto Rico Judging
- [2] *Rhyncholaeliocattleya* Candelario Garcia 'Carlos Granados' AM/AOS (Goldenzelle x Oconee) 85 pts. Exhibitor: Carlos Granados Barquero; photographer: Jorge Enrique Céspedes Trigueros. Puerto Rico Judging
- [3] *Rhyncholaeliocattleya* Newberry Holiday Joy 'Memoria Meg Rich' HCC/AOS (Oconee x *Cattleya percivaliana*) 79 pts. Exhibitor: Ian Rich; photographer: Larry Livingston. Rocky Mountain Judging
- [4] *Masdevallia princeps* 'Laramie' AM/AOS 82 pts. Exhibitor: Bruce Embury; photographer: Larry Livingston. Rocky Mountain Judging
- [5] *Laelia rubescens* 'Irma's Black Eye' AM/AOS 80 pts. Exhibitor: Irma Saldaña; photographer: Irma Saldaña. Puerto Rico Judging
- [6] *Cattlianthe* Doris McGraw 'Hynson Bayou' HCC/AOS (Caribbean Skies x *Cattleya Dupreana*) 79 pts. Exhibitor: Wilton Guillory; photographer: Charlie Riner. Shreveport Judging
- [7] *Rhyncholaeliocattleya* Mysterious Valley 'Scarlet Hamilton' HCC/AOS (Jeremy Island x *Cattleya* Circle of Life) 77 pts. Exhibitor: Ian Rich; photographer: Mark Van der Woerd. Rocky Mountain Judging
- [8] *Rhyncholaeliocattleya* Alejandro Rodriguez 'Cheung' AM/AOS (Rugeley's Mill x Goldenzelle) 84 pts. Exhibitor: Alejandro Rodriguez Cheung; photographer: Jorge Enrique Céspedes Trigueros. Puerto Rico Judging
- [9] *Laeliocatanthe* Living Jewel 'FCO Ramonita' HCC/AOS (*Laelia undulata* x *Cattlianthe* Rose Drop) 79 pts. Exhibitor: Francisco Martinez Rivera; photographer: Irma Saldaña. Puerto Rico Judging
- [10] *Phragmipedium* Memoria Mariza Rolando 'Henderson' AM/AOS (*kovachii* x Hanne Popow) 84 pts. Exhibitor: Kenneth S. Wilson; photographer: Larry Livingston. Rocky Mountain Judging
- [11] *Angraecum leonis* 'Elizabeth Grace' AM/AOS 82 pts. Exhibitor: Eron Borne; photographer: Guillory Wilton. Shreveport Judging
- [12] *Vandachostylis* Sugar Baby 'Louisiana' HCC/AOS (Lou Sneary x *Vanda miniata*) 78 pts. Exhibitor: Al Taylor; photographer: Charlie Riner. Shreveport Judging
- [13] *Perreiraara* LeBeau Blue 'Louisiana' AM/AOS (*Aerides lawrenceae* x *Vandachostylis* Sasicha) 81 pts. Exhibitor: Al Taylor; photographer: Charlie Riner. Shreveport Judging
- [14] *Vanda* Golamco's Blue Magic 'Louisiana' HCC/AOS (Gordon Dillon x *coerulea*) 79 pts. Exhibitor: Al Taylor; photographer: Guillory Wilton. Shreveport Judging
- [15] *Dendrobium cymbidioides* 'Denver Botanic Gardens' CCE/AOS 93 pts. Exhibitor: Denver Botanic Gardens; photographer: Mark Van der Woerd. Rocky Mountain Judging
- [16] *Phragmipedium* Carol Kanzer 'Mysterious Valley Rose' AM/AOS (*pearcei* x *schlimii*) 82 pts. Exhibitor: Ian Rich; photographer: Mark Van der Woerd. Rocky Mountain Judging



- [1] *Oncidium* Bryon Fischer 'Paramount's Ben Fischer' HCC/AOS (Tiger Crow x Hans Koch) 77 pts. Exhibitor: Paramount Orchids; photographer: Judith Higham. Western Canada Judging
- [2] *Paphiopedilum* Sunlight Anita 'Crystal Star' AM/AOS (Lady Rothschild x *anitum*) 84 pts. Exhibitor: Crystal Star Orchids Ellen and Eric Lee; photographer: Jay Norris. Toronto Judging
- [3] *Stelis microchila* 'Helen's Gems' CHM/AOS 83 pts. Exhibitor: Ed Cott; photographer: Ed Cott. Toronto Judging
- [4] *Mormodes fractiflexa* 'La Atractiva' AM/AOS 82 pts. Exhibitor: Gilberto Arrieche; photographer: Robin McLaughlin. Toronto Judging
- [5] *Bulbophyllum* Elizabeth Ann 'Buckleberry' CCM/AOS (*longissimum* x *rothschildianum*) 82 pts. Exhibitor: David Bryan; photographer: Robin McLaughlin. Toronto Judging
- [6] *Mormodes variabilis* 'Armida' AM/AOS 82 pts. Exhibitor: Gilberto Arrieche; photographer: Robin McLaughlin. Toronto Judging



The American Orchid Society grants the following awards to orchids and exhibitors. AOS awards are a recognized measure of quality the world over and coveted by hobbyists and commercial growers alike. An AOS flower quality award adds value to an orchid in its own right, and as a parent for creating hybrids.

HCC (Highly Commended Certificate) 75 to 79 points inclusive on a 100-point scale.

AM (Award of Merit) 80–89 points inclusive on a 100-point scale.

FCC (First Class Certificate) 90 points or more on a 100-point scale.

JC (Judges' Commendation) Given for distinctive characteristics that the judges unanimously feel should be recognized but cannot be scored in the customary ways.

AD (Award of Distinction) Awarded once to a cross representing a worthy new direction in Breeding. The award is granted unanimously without scoring by the judging team assigned.

AQ (Award of Quality) Awarded once to a cross exhibited by a single individual as a group of not less than 12 plants or inflorescences of different clones of a hybrid or cultivated species. At least one must receive a flower quality award and the overall quality of the group must be an improvement over the former type.

CBR (Certificate of Botanical Recognition) Awarded to rare or unusual species with educational interest having received no previous awards.

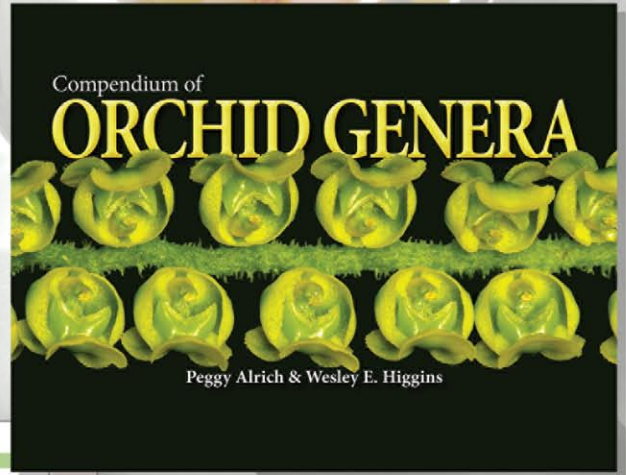
CHM (Certificate of Horticultural Merit) Awarded to a well-grown and well-flowered species or natural hybrid with characteristics that contribute to the horticultural aspects of orchidology, such as aesthetic appeal.

CCM (Certificate of Cultural Merit) Awarded to the exhibitor of a well-flowered specimen plant of robust health having been in the care of the exhibitor at least 12 months immediately prior to the award and scoring 80–89 points inclusive on a 100-point scale.

CCE (Certificate of Cultural Excellence) Same as above, scoring 90 or more points on a 100-point scale.



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DUE TO CORONAVIRUS CONCERNS, MANY SPRING SHOWS HAVE BEEN CANCELED OR POSTPONED. BEFORE PLANNING TO VISIT ANY SHOW, PLEASE EMAIL OR PHONE THE PERSON OF CONTACT TO FIND OUT THE CURRENT STATUS OF THE EVENT.

APRIL

3–5—Five Cities Orchid Society “Central Coast Orchid Show,” South County Regional Center, 800 W Branch St., Arroyo Grande, CA; Contact: Eric Holenda, 805–929–5749; cbh@charter.net

3–5—Pan American Orchid Society Show “Serenity of Orchids,” R.F. Orchids, Inc., 28100 SW 182 Ave., Homestead, FL; Contact: David Foster, 305–234–0185; davesorchids@gmail.com

3–5—Southeastern Pennsylvania Orchid Society International Orchid Show & Sale, Greater Philadelphia EXPO Center at Oaks, 100 Station Ave., Oaks, PA; Contact: Robert Sprague, 484–919–2922; bobsatcyndal@aol.com

4–5—Central Ohio Orchid Society Annual Show & Sale, Franklin Park Conservatory and Botanical Gardens, 1777 East Broad St., Columbus, OH; Contact: Dave Markley, 614–354–9044; davemarkley27@gmail.com

4–5—Cherry City Orchid Society Show “Orchid Fantasy,” Bonaventure of Salem, 3411 Boone Road SE, Salem, OR; Contact: Janeil Payne, 503–931–3441; janeilp@hotmail.com

4–5—Connecticut Orchid Society Show “Spring into Orchids,” Bristol Senior Center, 240 Stafford Avenue, Bristol, CT; Contact: Cheryl Mizak, 203–264–6096; cmizak@alcher.com

4–5—Desert Valley Orchid Society Show, Berridge Nurseries, 4647 E. Camelback Road, Phoenix, AZ; Contact: Karla Velesco, 602–410–6514; desrtvalleyorchid@gmail.com

4–5—Houston Orchid Society Show & Sale, Memorial City Mall, 303 Memorial City Way, Houston, TX; Contact: Jay Balchan, 713–898–1265; balchan.jay@gmail.com

4–5—Les Orchidophiles de Quebec “Orchidofolie 2020,” Pavillon Envirotron, 2480 Boulevard Hochelaga, Quebec, Quebec, Canada; Contact: Michel Tremblay, 450–966–6339; mdppa.tremblay@sympatico.ca

4–5—Santa Cruz Orchid Society Show & Sale, Cabrillo College Horticulture Center, 6500 Soquell Drive, Aptos, CA; Contact: Linda Locatelli, 831–426–5631;

orchidlady@cruzio.com

4–5—The Central Pennsylvania Orchid Society’s 55th Annual Orchid Show, Ag Arena, Penn State University, Park Avenue, University Park, PA; Contact: Wade Hollenbach and Cathy Riemer, 570–837–9157; wadeh@ptd.net

4–5—Utah Orchid Society Bench Show, Red Butte Gardens, 300 Wakara Way, Salt Lake City, UT; Contact: Shawn Quealy, 801–831–7359; shquealy@comcast.net

4–5—Western North Carolina Orchid Society “An Orchid Expedition,” North Carolina Arboretum, 100 Frederick Law Olmsted Way, Asheville, NC; Contact: Mike Mims, 828–329–2126; michaelmims@gmail.com

9–11—Maui Orchid Society Easter Show, Maui Mall, 70 East Kaahumanu Ave., Kahului, Maui, HI; Contact: Bert Akitake, 808–250–1585; jakitake@hotmail.com

10–11—Fort Worth Orchid Society “The Shocking Beauty of the Orchid World,” Fort Worth Botanic Garden Conservatory, 3220 Botanic Garden Blvd., Ft. Worth, TX; Contact: Connie Koehler, 817–505–3867; angelunaware43@gmail.com

11–12—Flamingo Gardens Orchid Society Show, Flamingo Gardens, 3750 S Flamingo Rd., Davie, FL; Contact: Jan Amador, 954–347–2738; jbamador@bellsouth.net

15–19—AOS Spring Members’ Meeting, Embassy Suites Sacramento Riverfront, 100 Capitol Mall, Sacramento, CA; Contact: Naya Marciano, 305–740–2010; naya@aos.org

16–18—“20/20 Vision of Orchids Show and Sale,” Embassy Suites Sacramento Riverfront, 100 Capitol Mall, Sacramento, CA; Contact: Tom Pickford, 707–480–1760; tom@goodstuff.net

17–19—Asociacion Orquideologica de Cartago “Exposicion Nacional de Orquideas Cartago 2020,” Centro Comercial Paseo Metrópoli, La Lima, Entrada a Cartago, Cartago, Costa Rica; Contact: Carlos Granados, (506) 8379–1513; cagranados48@gmail.com

18—*Mid-Hudson Orchid Society Show and Sale, Union Presbyterian Church,

44 Balmville Road, Newburgh, NY; Contact: Brenda Decker, 845–616–6901; president@mhos.us.com

18—*Mid-Lakes Orchid Society Semiannual Auction, Rogers Park, 610 South 9th St, Leesburg, FL 34748; Contact: Jack Batchelor, (352) 267–6933; sofbal8888@aol.com

18–19—Central Indiana Orchid Society Show, Garfield Park Conservatory, 2505 Conservatory Drive, Indianapolis, IN; Contact: Foster Flint, 317–601–2649; flintlowell@hotmail.com

18–19—Gold Coast Cymbidium Growers Annual Show & Sale, Redwood City Community Activities Building, 1400 Roosevelt Ave., Redwood City, CA; Contact: Sylvia Darr, 650–450–1384; syldarr@gmail.com

18–19—Toronto Artistic Orchid Association Orchid Show, Center for Immigrant & Community Services, 2330 Midland Ave., Toronto, Ontario, Canada; Contact: Nancy Leung, 905–597–6665; nancyleung.taoa@gmail.com

18–19—Treasure Valley Orchid Society Show & Sale, Hilton Garden Inn Boise, 7699 Spectrum St., Boise, ID; Contact: Ruth Mayer, 208–860–5254; ruthmayer@cableone.net

18–19—Tulsa Orchid Society Show “Orchids: Jewels of the Jungle,” Tulsa Garden Center, 2435 S. Peoria Ave., Tulsa, OK; Contact: Soundra Schacher, 918–299–6466; schacher1@cox.net

24–26—Acadian Orchid Society 2020 Show & Sale, Ira Nelson Horticulture Center, 2206 Johnson St., Lafayette, LA; Contact: Bobby Gianelloni, 337–349–8512; orsoc@centurytel.net

24–26—Sacajawea Orchid Society Show, Gallatin Valley Mall, 2885 West Main Street, Unit 3–J, Bozeman, MT; Contact: C. M. Spinelli, 406–282–7621; companion406@gmail.com

25–26—Oregon Orchid Society Spring Show, Aquinus Center, 340 NE Clackamas Street, Portland, OR; Contact: Greg Stanley, 626–818–2806; greges1@aol.com

25–26—Ottawa Orchid Society Show “Orchidophilia,” RA Recreational Centre, 2451 Riverside Drive, Ottawa, ON,

CALENDAR

Canada; Contact: David Cooper, 613-256-2853; david_cooper@storm.com

25-26—Southern Tier Orchid Society Show, Roberson Museum, 30 Front Street, Binghamton, NY; Contact: Carol Bayles, 607-275-9090; cjb4@cornell.edu

25-26—Vero Beach Orchid Society Annual Show “Golden Age of Orchids,” Riverside Park, 3001 Riverside Park Dr., Vero Beach, FL; Contact: Carolyn Greene, 321-506-3909; vbosnewsletter@gmail.com

25-26—West Shore Orchid Society Show, Strongsville Recreation Center, 18100 Royalton Road, Strongsville, OH; Contact: Chester Kieliszek, 330-467-3731; kieliszek@aol.com

29-May 3—Sociedad de Orquidistas del Caribe “Guayama Vive el encanto,” Guayama Centrico, Carr 3, Guayama, PR; Contact: Dr. Julio David Rios, 787-649-2655; david1156@hotmail.com

MAY

1-3—Platinum Coast Orchid Society “A Rainbow of Orchids,” Kiwanis Island Park Gymnasium, 951 Kiwanis Island Park

Road, Merritt Island, FL; Contact: Laura Blackmon, 321-745-9046; leblackmon@bledsoe.net

2-3—Oklahoma Orchid Society Show “Orchids Great and Small,” Will Rogers Garden Exhibition Center, 3400 NW 36th Street, Oklahoma City, OK; Contact: Jay Simon, 405-639-9635; jaycsimon@yahoo.com

6-9—Asociacion de Orquidistas del Sur “2020 PR First Orchids Festival,” Plaza del Caribe Mall, 2050 Ponce By Pass, Suite 111, Ponce PR; Contact: Francisco Martinez, 787-487-1917; francisco.martinez@hilton.com

29-31—Long Island Orchid Society “Orchid Festival 2020,” Planting Fields Arboretum State Historic Park, 1395 Planting Fields Rd, Oyster Bay, NY; Contact: Maria Mucaria Stankowski, 516-780-5107; maria@longislandorchidsociety.org

Events preceded by an asterisk (*) in this listing will not be judged by the AOS.

Yellow Sticky Cards for Bush Snails

A little trick I learned a few years ago: to catch those nasty bush snails which do not seem to respond to any other method: cut a piece of yellow sticky card and insert it into the orchid pot. If you have bush snails they will be attracted to the card and get stuck. You will not get them all but you will get an amazing number of them.

I came to this solution sort of by accident; I do not like to use chemical solutions if I do not have to and bush snails are almost impossible to get rid of. I had stuck a piece of a yellow card in a pot to catch fungus gnats and was amazed to see about 20 bush snails on the card as well. Now I try to keep a card in every one of my pots.

— Sara Johnson, Concord, California

Fertilizing getting you down?

Use slow release fertilizer pellets (14-14-14) commonly used for hanging baskets that will last three months. This way your plants get continuous fertilizer when you are busy or away. Use more on heavy feeders and less on orchids such as paphiopedilums: 1/2 teaspoon (2.5 ml) for 4-inch (10-cm) pots, one teaspoon (5 ml) for 6-inch (15-cm) pots or a tablespoon (15 cml) for 10-inch (25-cm) pots.

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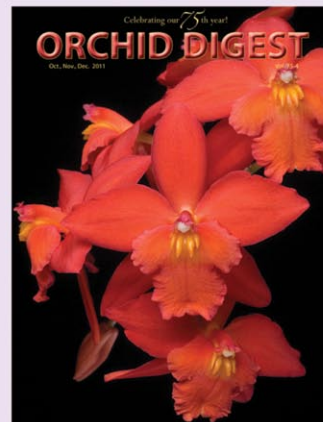
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Where to Place Baskets



MY NEW YEAR'S resolution was to enhance my skills and become knowledgeable about my orchid collection. Lately, I have been rearranging my orchids by cultural requirements and creating growing environments that will promote better vigor and growth in my plants. I am at the point where I am not killing my plants but they are just not growing or blooming as well as I would like them to.

As a result, I have been organizing some of my orchids into wire baskets. The medium-to-high light-loving orchids hang from the ceiling of my greenhouse with a retractable plant pulley (available from Amazon for about \$10.00/2-pack) so they are easy to pull down to check on them. My shade-tolerant orchids are in baskets sitting on the floor. Plants are further segregated by potting medium: moss vs bark. I water my bark baskets more often than my moss baskets. I am learning more about the individual requirements of my collection with this system plus I can fit more orchids into a small space. Who would not love that!

— Cindy Jepsen (email: cindyjepsen@cox.net).

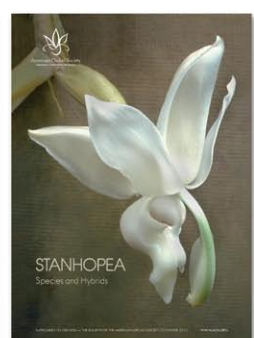
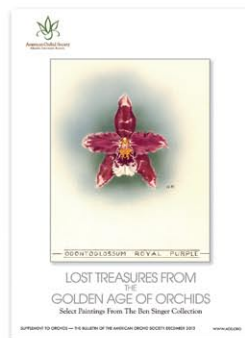
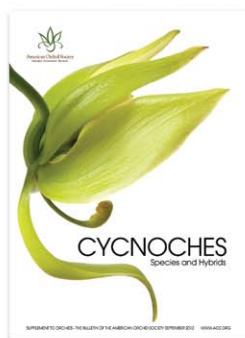
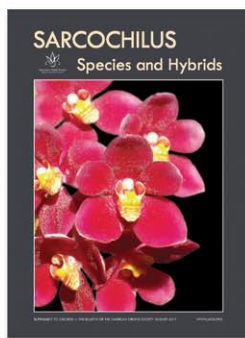
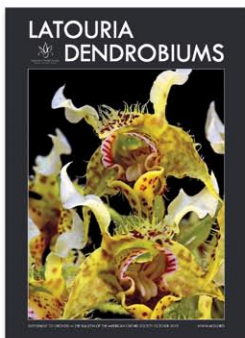
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2020 Dillon/Peterson Essay Prize

THE AOS IS celebrating its Centennial Anniversary in 2021. To join in the fun, the Dillon-Peterson Essay Contest is asking for in-depth articles relating to significant people, events, programs or even plants or technology changes that have helped shape the direction of the AOS or are likely to in the future. Was there someone special in the AOS who mentored and inspired you and others? Did an AOS award you received plant the seed that resulted in you becoming involved in judging—could you tie that into how the judging program has helped shape the AOS and Affiliated Societies? Perhaps it is technological changes that the AOS has adopted that have changed and will change the AOS and your enjoyment of orchids? Share why the AOS has had and will have an enormous influence over lifetimes.

Membership in the American Orchid Society is not necessary to enter the contest. **The deadline is September 30, 2020.** The winning entry, if any, will be published in the June issue of the following year. For complete contest rules see <http://www.aos.org/about-us/article-submissions/essay-contest-winners.aspx>

Submit all entries to the Dillon/Peterson Memorial Essay Prize at AOS headquarters: Ron McHatton, American Orchid Society at Fairchild Tropical Botanic Garden, PO Box 565477, Miami, Florida 33256 (email rmchatton@aos.org).

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The AOS welcomes the submission of manuscripts for publication in *Orchids* magazine from members and non-members alike. Articles should be about orchids or related topics and cultural articles are always especially welcome. These can run the gamut from major feature-length articles on such topics as growing under lights, windowsills and thorough discussions of a species, genus or habitat to shorter, focused articles on a single species or hybrid to run under the Collector's Item banner. The AOS follows the World Checklist of Selected Plant Families with respect to species nomenclature and the Royal Horticultural Society Orchid Hybrid Register for questions of hybrid nomenclature. The AOS style guide and usage guides can be downloaded from <http://www.aos.org/about-us/article-submissions/style-guide-for-aos-publications.aspx>

Articles as well as inquiries regarding suitability of proposed articles should be sent to jean.ikeson@gmail.com or the editor at rmchatton@aos.org.

The Sydney “Rock Lily”

What a Difference a Decade Can Make!

NILE S. DUSDIEKER



MY WIFE, LOIS, and I just returned from a visit to Sydney, Australia to be with our daughter and her family during the December holidays. With three grandchildren growing up there, we have trekked “down under” multiple times over the last decade. We like to explore the Royal Botanical Gardens in downtown Sydney near the famed Opera House. The gardens consist of 74 acres (46.25 ha) located along the southern edge of the harbor just east of the central business district. Frequented by joggers, lunch goers, as well as botanical aficionados, the gardens are free and open to the public daily all year long. The land was originally set aside by Governor, Major General Lachlan Macquarie in 1816, only 20 years

after the first fleet of settlers arrived from England in 1788 and named the area Farm Cove. Today the gardens showcase plants native to Australia and other regions around the world (more information at www.rbgsyd.nsw.gov.au).

On one of our walks in the gardens, mid-September 2009 and again 2010, we happened upon a large flat rock outcropping over 25-feet (7.6-m) long, completely covered with massive sprays of cream-colored, stellate flowers. A sign nearby labeled the plant as the “Sydney Rock Lily.” This was no lily! It was a huge *Dendrobium speciosum* var. *speciosum*. The plant obviously had been growing there for decades. The roots were clinging to the rock covered

by a thin layer of decaying leaves and detritus. This habitat was harsh to say the least, especially as the plant was exposed to full sunlight nearly all day long. *Dendrobium speciosum* has several varietal forms and can be found along Australia’s eastern coast from Queensland in the north to Victoria in the south. This varietal form is known for large plants and spectacular floral displays. It is native to the Sydney area and, indeed, can be found on the rocky outcroppings around the famed Harbor Bridge. Naturally, I took a number of photographs, even some with us standing in front of the rock, dwarfed by the size of this specimen plant.

On our recent trip, we wanted to visit the site again, realizing it would be



long past blooming now that summer had arrived. The day was warm, 113 F (45 C), the sky was hazy with the smell of smoke from the bush fires, and the area had not seen meaningful rain for months. We located the rocky outcrop only to find that the surviving orchid was but a mere shadow of its former self. I did not see any new growths, pseudobulbs were moderately desiccated and a few old bloom spikes suggested that it had bloomed weakly last spring. Three separate clumps were all that remained. Ferns encroached around the edges and were likely further robbing the orchid of the minimal nutritional support needed to survive. The surrounding rock surface was barren suggesting that the regression of the plant had been a prolonged process.

Australia has been in the midst of a multiyear drought and the high temperatures we experienced were oppressive. The entire botanical gardens were extremely hot and dry. I am not

certain whether supplemental water can be provided, as the entire state of New South Wales is under water restrictions. I do hope the garden caretakers can resurrect this historic plant. We often forget that some orchids can live as long or longer than humans, provided the growing conditions remain conducive. But things change. What a difference a decade can make!

— *Nile Dusdieker is a retired physician and an accredited American Orchid Society judge associated with the Chicago judging center. He and his wife, Lois, grow around 900 orchids of varied genera in a greenhouse atop their third garage at their North Liberty, Iowa home. Most of the orchids move to an outside pergola for the summer months. Nile enjoys giving presentations on a wide variety of orchid topics and has presented at international meetings (email: niledusdieker@gmail.com).*

[1] The author and his wife in front of the massive specimen of *Dendrobium speciosum* flowering in September a decade ago.

[2] All that remains of this massive clump today is three small struggling clumps. Years of devastating drought have taken their toll and without a significant change in climate, it is likely that this once massive specimen will soon succumb to the elements.

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