



# Marin Orchid Society

Non-profit 501(c)3 Corporation  
Affiliate of the American Orchid Society



March 22, 2022 7:00 p.m.

Visit Our  
Website

## March President's Letter



### Greetings MOS Friends,

The first quarter of the year is coming to an end. I hope your year is going well thus far.

Thank you, Lynne, for hosting the February MOS meeting while I was away.

The last trip to see the grandkids (my daughter and her husband) was fairly uneventful. That is, if you discount that Levi was recovering from a cold and Evelyn came down with a screamer of a cold on Saturday. So, of course, I came down with a cold as well. I have not had a cold since 2019 and

now that streak is over. Fortunately, we have drugs so I was able to rest so I could be rid of the blasted rhinovirus. I think that not having a cold for almost 3 years says that masks and social distancing actually works.

On my way home, I stopped by my favorite model train store. I had some repairs to be done and shopping. The repair was simple; just a bad contact that made the lighting flicker. The buying was to obtain a new engine that looked appropriate with my Pullman cars. I now have 4 long N-scale trains: GS-4 locomotive with a set of Pullman cars, a Union Pacific ES44AC locomotive with a museum/excursion car set, a Union Pacific SD70Ace locomotive with Employee Pride paint job (actually, that's just a lone engine at the moment), a Wabash passenger car set, and a Burlington Siler Streak

set. These are all on my dining room table now. But, as I don't really use my dining room, I am considering making this my train playground until I am able to finish painting my guest room and then I will move all the stuff into that room.

My plants have suffered from a combination of lack of rain, warm weather, and freezing overnight temperatures. It's a strange combination. I've finally had to make the concession that I need to water more than the sustenance regimen I was doing. I am very conscious that we're in a drought, but plants do need water so a balance is necessary. I will be incorporating a valved watering system for the growing area into my sprinkler system. The freezing temperatures did not really affect the *cymbidiums*; they are hardy suckers. But, some of the other orchids and the Queen Plant have some damaged leaves. I'm thinking they will survive but they've been stunted for the year. Now I need to think a bit more about obtaining or constructing some sort of greenhouse or a shelter for the plants for when the forecast is for too warm or too cold weather.

And now for something completely different.

I hope you all had the opportunity to visit POE this year to enjoy all the great displays and maybe buy some plants. POE was a great success both for SFOS and for our Society. From what I hear, SFOS sold out all of their Gala Night tickets and the vendors did incredibly well. MOS put on an outstanding display. We won all of the major awards: Best Display By A Visiting Society, AOS Best Display, Orchid Digest Best Display. Between them, Lynne and Tom received a total of 3 CCM/AOS awards, and there were a number of other awards presented. We showed approximately 70 plants contributed by 11 of our members. Naoko did a grand job organizing the display, Brian did the building, and we had a number of volunteers to help organize the display. I'm leaving a lot out here because there's a full article elsewhere in this issue of the Back Bulb. But, thank you to everyone who helped with the display.

The Show and Tell online links for all the months are elsewhere in this Back Bulb. If you would like to share photos of your lovely plants, please send the photos to the MOS email. To make them easier to find, please put "Show and Tell" in the subject line.

Please, if you send photos to be added to the Show and Tell site, and if you will not be at the meeting to talk about them, add a short description to the photo in the email.

And, if you'd like to share your plant during the meeting, please feel free to do so. We'd love to see what you've got blooming.

As visitors are always welcome to attend our meetings, so feel free to share the link to the meeting.

I look forward to seeing you online at the next meeting. The April meeting will be a hybrid, in person and Zoom. The in-person part will be at Kol Shofar.

Ron

# March Speaker -Ernesto Sandoval

## Topic: Plant Hormones in Orchids:Knowing and Managing Them for Better Results



Have you wondered why your plant has a sudden burst of growth after transplanting? Or how the plant ‘knows’ to grow new parts when pruned or how a cutting knows to make new roots? Maybe you've even wondered about how a vanilla bean knows to ripen or why leaves all of a sudden turn yellow when you bring a plant home? Find answers to these questions and others about why your plants grow the way they do during this informative but not so technical presentation by Ernesto Sandoval, Director of the UC Davis Botanical Conservatory.

Ernesto has been wondering and seeking questions and answers to why plants grow and look the way that they do for nearly 40 years. Now he explains and interprets the world of plants to a variety of ages and from amateur to professional gardeners. He regularly lectures to a variety of western Garden Clubs throughout the year, to Succulent Clubs throughout California and has spoken to numerous Bay Area orchid societies and other gardening and horticulture groups.

Although desert plants are his particular passion within his general passion for plants, he describes himself as a "Jose of All Plants, Master of None" and loves learning from the experiences of others as well as his own. Ernesto thoroughly enjoys helping others, and gardeners in particular, to understand why and how plants do what they do. When he was about 13, he asked his dad why one tree was pruned a particular way and another tree another way. His dad answered bluntly "because that's the way you do it." Since then he's been learning and teaching himself the answers to those and many other questions by getting a degree at UC Davis in Botany and working from student weeder/waterer to Director/Manager over the last 30 years at the UC Davis Botanical Conservatory.

He's long left the "mow blow and go" monoculture landscape gardening world and has immersed himself in the world of horticultural biodiversity by growing several thousand types of plants at the UC Davis Botanical Conservatory! Several of his favorite garden projects involved converting lawns and or water loving landscapes to drought tolerant and diversity filled gardens. He likes to promote plant liberation by encouraging gardeners of all sorts to grow more plants in the ground when possible. He loves the technical language of Botany but prefers to relate information in more understandable methods of communication. By helping people to understand

the workings of plants, including hormones, he hopes to help us better understand how to manage our plants and why our plants do what they do to help us maximize their growth with less effort.

## About the March Meeting

### Please Attend our Virtual Zoom Meeting!

Here is the invitation information for the MOS monthly zoom meetings. I've also updated the GMAIL calendar.

Marin Orchid Society is inviting you to a scheduled Zoom meeting.  
Topic: Marin Orchid Society Monthly Meeting

Time: March 22, 2022 Meeting officially starts at 7:00 pm PST. PLEASE join the Zoom meeting well ahead of time so that you are settled in. To join Zoom Meeting click here: [MOS March Zoom meeting](#)

Every month Fourth Tuesday 7:00 pm (except December)  
Please download and import the following iCalendar (.ics) files to your calendar system. Click here: [Calendar](#)

One tap mobile  
+16699009128,,82158733163# US (San Jose)  
+13462487799,,82158733163# US (Houston)  
Dial by your location  
+1 669 900 9128 US (San Jose)  
+1 312 626 6799 US (Chicago)  
Meeting ID: 821 5873 3163  
[Local Number](#)

## February Speaker Review Microbial Treatments & Phytochemical Stimulants in Orchid Growing with Ray Barkalow

Ray Barkalow spoke to us about Microbial Treatments and Phytochemical Stimulants in Orchid Growing or more simply, how Bugs and Juice can help grow more healthy plants. An orchid grower for fifty years or so he has experimented extensively with ways to keep his collection happy despite extensive job-related travel. Initially an 'accidental' entrepreneur, he then turned his experimenting into a business, First Ray's, which he still maintains at a reduced scale now that he



has retired. His talk to us summarized his experience.

Ray first discussed microbial treatments. Most growers focus on products for eliminating the bad guys. Such products can be phototoxic, environmentally unfriendly and hazardous to the growers. These often chemical 'curatives' do as much damage as good in that they get rid of beneficial microbes as well as bad microbes. We are all aware of ways that people seek to enhance beneficial microbes - by ingesting yogurt, soft cheeses or probiotics. Ray believed that a similar approach could benefit plants.

Ray introduced the idea of plant probiotics by first noting that there are well known examples of mutually beneficial symbiotic relationships in nature. There are well described ectomycorrhizal and endomycorrhizal relationships in the plant kingdom. Both are symbiotic relationships between a fungal symbiont and roots of a plant, ectomycorrhiza do not penetrate host plant's cells, endomycorrhiza do. Both facilitate the uptake and utilization of nutrients, generally by secreting enzymes that break down complex biomolecules to release nutrient constituents. Ectomycorrhizal fungi can form extensive networks around a host plant's root systems. Endomycorrhiza are invisible to naked eye, their mycelia penetrate the plant cells. In the wild, orchid seed relies on these types of mycorrhizae for germination.

Trichoderma is a fungus that preys on other fungi. It is naturally occurring in Orchid bark, a result of the manufacturer's aging process that promotes its presence. RootShield®, a biological fungicide includes *Trichoderma harzianum*. BotaniGard®, is a biological insecticide where the active ingredients is *Beauveria bassiana*, a fungus that attacks insect eggs. In addition to fungi, certain bacteria are also used for pest control. For example, *Bacillus thuringiensis* is a commonly used biological pesticide, used to control grubs and mosquitos among other insects. Other bacteria such as *Bacillus subtilis*, *Streptomyces lydicus* and certain lactobacilli are also used as plant probiotics. These plant probiotics are effective against pathogens on leaf surfaces, where the population grows rapidly, breaking down organic targets and releasing nutrients and plant hormones. They can also cause chemical changes in the plant's cells eliciting defense mechanisms. It is estimated that there are 300,000 species of microorganisms populating the rhizomes (roots) of plants in the wild. Ray believes that for maximum impact a probiotic should include a variety of microorganisms.

Ray cited some of his own experience with biological control. He worked on the clean-up for the Exxon Valdez oil spill. The state-of-art approach at that time was to dump oil-eating super bacteria on the spill. Unfortunately, the bacteria were not native and soon died out in the alien environment. Scientists at what was then Elf Aquitaine then showed that if you take a simple easily utilized carbon source such as olive oil, it fostered an explosive growth of indigenous microbes. Once the olive oil was gone, the microbes had to eat the oil spill. In 6 weeks, there was no trace of spilled oil on the beach. Unfortunately, it is not clear that this type of treatment has been broadly adopted. On a smaller scale, Ray said to clean up a car oil spill use muracid, olive oil and bit of sand. After spraying this on the car oil spill, cordon the area off as it will be very slippery. Soon, the spill will disappear and there the native micro flora and fauna will be unaffected.

Ray cited the following available microbial treatment products - both those

that kill unwanted pests and/or promote healthy plants. EM1 is a bacterial product that he thinks is pretty good. Other products include the RootShield®, BotaniGard®, Quantum-Total and Inocucor Garden Solution. He noted that the greater the diversity of species in the product, the broader spectrum effect but also noted that different microorganisms contained in the different products may be of differing effectiveness in different environments. Ray distributes both Quantum -Total and Inocucor Garden Solutions.

Inocucor Garden Solutions was originally developed by Inocucor Technologies. They created a product that included microbial species selected to provide broad spectrum effects and biocompatibility. It has been tested extensively and used on vegetable, fruits, ornamentals and orchids. His personal experience with orchids is that there is not an obvious initial effect, but he has been surprised by the improvement it does make in his plants.

Ray cited how Hengduan Mountains Biotech was getting only 5% survival of its *Paph. tigrinum* seedlings to maturity. After treatment with Inocucor Garden Solutions at deflasking (sprayed a 1:50 solution) followed by periodic repeat treatments (1:100) they achieved 75-85% survival to maturity. Ray suggests a plant probiotic could be an alternative to phytan treatment at deflasking and during seedling growth.

Next Ray talked about plant growth stimulants. He noted that chemical stimulants are often overhyped but can be valuable. There are organic alternatives which can be either direct treatments with plant hormones or indirect treatments that provide large doses of trace elements. In both cases the goal is the same, to shortcut normal plant processes. Examples of synthetic plant growth stimulants include SUPERthrive, Dyna-Gro K-L-N. These synthetics often contain the auxin IBA (Indole-3-butyric acid) which is chemically unstable.

There are also natural products plant supplements/stimulants many of which work by indirectly providing auxin and cytokinin-like plant stimulants (natural plant hormones and phytohormones) which increase the physiologic function of the plant. One example is Mega Thrive used as foliar spray which also contains high concentrations of boron and molybdenum so care must be taken as the plant could become toxic to mammals and birds

Other 'short-cut' plant stimulant/supplement products contain natural plant chemicals (auxins and cytokinins) applied externally so the plant doesn't have to expend its own resource producing them. With any one of these products, it takes 2-3 weeks to return to normal auxin/cytokinin levels. If too little plant stimulant/supplement is applied, there is little to no noticeable effect, if too much is applied or it is applied too often, there is growth disruption, flower deformation and possibly plant death.

The plant growth stimulant/supplement that Ray distributes is KelpMax /Kelpak, derived from the kelp species *Eklonia maxima* from South African waters. The quality and effectiveness of the product is controlled by the processing. The product has been used worldwide for more than 40 years but until recently had never been used on orchids. He initially tested application on houseplants at a 1:250 dilution treated twice 10 days apart. All exploded

with new growth and/or blooms. He then tested on *vandas* growing in baskets, treating twice two weeks apart. The *vandas* went from an average of 4-6 new roots per plant to up to 40 new roots per plant. He also had 300 orchid seedlings in his greenhouse and treated some with 1 Tbsp/gal KelpMax monthly (unclear for how long) and found treated plants to have 28-30% higher bare root weights. He notes that KelpMax/Kelpak can be selective in that if during spiking you spray buds as they develop, you can get taller spikes and bigger flowers. Normally he uses it on plants as a drench.

Based on his experience, Ray espouses a growing regimen that attempts to mimic nature while seeking to improve upon it. He continues to sell a few orchid products through his business First Rays but that is much reduced from over 300 products that he used to sell. His web site also includes a wealth of information including 'A regimen for Growing Excellent Plants', which is <https://firstrays.com/growing-excellent-plants/>. For his own orchids (cattleyas, phrags and paphs) Ray simulates rainfall in tropical rain forests by using K-Lite fertilizer in low doses at every watering, about 1/6 tsp/gal every day or every other day. (I would note that he also provides directions for different dilutions for watering once a week or less). He supplements monthly with a probiotic, either Inocucor Garden Solution at 1:100 or Quantum Total at 1:125. Either of these kills pathogens and stimulates plant defense mechanisms. He further supplements monthly with KelpMax/Kelpak at 1:250. This kick-starts the plant and both it and K-lite provide nutrition to plant and microbes. He doesn't use any other products.

Ray summed up by saying that properly chosen and applied biological and plant extracts can cure plant disease, kill pests and protect from attack. They can also stimulate growth and are environmentally friendly. To find out more about First Rays products as well as to access a lot of useful information, please see [www.firstrays.com](http://www.firstrays.com). We thank Ray for his useful and informative presentation.

Submitted by Patricia Olson

## MOS Wins Several Best Display Awards at 69th Annual Pacific Orchid Exhibition



We did it again! Three Best Display Awards from San Francisco Orchid Society,



American Orchid Society and  
Orchid Digest!

Thank you to Naoko for  
designing our award winning  
display. Special thank you to  
Brian Beard & Ron Ludwig for  
constructing it and other set up  
and take down helpers: Susan  
Anderson, Lynne Murrell,  
Carolyn Fisher, Terumi Leinow,  
Geri Cooper, Maria Gregoriev!

## Eleven Major Awards, Ribbons Galore!



Congratulations: Judy Carny - Best Phalaenopsis Alliance, Best Species, Best Miniature. Tom Pickford - AM/AOS, Best Cattleya Alliance in Show, Best Cattleya by Advanced Grower



Best Cymbidium by a Novice - Carolyn Fisher and Best Dendrobium by a Novice

Thank you to other members who contributed plants: Susan Anderson, Maria Gregoriev, Cathy Thompson, Naoko Nojiri, Daniel Heller, Paul & Phyllis Chim, Terumi Leinow



Congratulations: Lynne Murrell, Best Dendrobium by Advanced Grower; CCE/AOS; Best Misc. Category by Advanced Grower

## AOS Corner, March 2022

I am ringing in the New Year with a resolution to kill fewer Orchids than I did in 2021. UPDATE: I've tossed only 20 so far, using the Judy Carney mantra: "Is it thriving or is it surviving?" The hangers-on are GONE!!.

**FOUR MONTHLY AOS ORCHID JUDGINGS are Now Available:**  
Please wear a mask and respect social distancing.

**PACIFIC JUDGING CENTER** hosts two monthly:



The 1st Tuesday of each month, during the regular SFOS monthly meeting at the Hall of Flowers, Golden Gate Park AND the 3rd Saturday of each month at Filoli Historic House & Garden, 86 Canada Road, Woodside CA. NEXT Judging is Saturday, March 18th at 9 a.m. Questions? Contact James Heilig: heiligja@msu.edu

**CALIFORNIA SIERRA NEVADA** Judging Center (CSNJC) hosts 2 monthly:

The 1st Wednesday of each month, during the regular Sacramento Orchid Society monthly meeting at the Odd Fellows Hall, 1831 Howe Avenue, Sacramento. Plant entry 6pm to 6:30. AND the 3rd Sunday at Dueling Dogs Brewing Company, 3030 Barrett Park Lane, Lincoln CA; Plant entry at 8am; judging starts at 8:30am. Questions? Contact Lynne Murrell: lynne.murrell@outlook.com

### Shows, Plant Sales and Other Events

Get ready to enjoy the Spring 2022 Shows, as many Bay Area Orchid Societies return to their annual Shows and Sales events!

- Sonoma County Orchid Show & Sale, March 26 & 27, Santa Rosa Veteran's Building, 1351 Maple Avenue, Santa Rosa
- Napa Valley Orchid Society Show & Sale, April 2 & 3, Napa Senior Center, 1500 Jefferson Avenue, Napa
- The American Orchid Society Centennial Celebration, April 6-9, Biltmore Hotel in Coral Gables
- California Orchids Spring Sale, April 16, 515 Aspen Road, Bolinas

## AOS News

The 2022 Annual Meeting of Members will be held April 8, 2022, at the Biltmore Hotel, 1200 Anastasia Avenue, Coral Gables, FL in conjunction with the Society's Centennial Celebration.

The AOS Nominating Committee respectfully submits the following nominations for officers and trustees. Voting will be strictly by electronic ballot to be distributed by email to all voting members 30 days prior to the election. BE SURE TO CAST YOUR BALLOT!

#### Officers▯

President: Jay Balchan▯

Vice President: Cheryl Erins▯

Treasurer: Julio Hector▯

Secretary: Theresa Kennedy▯

Vice President: Alison Gallaway  
Assistant Treasurer: Nancy Mountford

**Trustees (term ending 2025)**

Catherine Higgins  
Denise Lucero  
Thomas Miranda  
Dr. Larry Sexton

**Trustees (term ending in 2024)**

Jurahame Leyva

**Trustees (term ending in 2023)**

Russ Vernon

**UPCOMING MONTHLY WEBINARS**

The FREE twice-monthly Greenhouse Chat Webinars with Ron McHatton are a superb opportunity to get expert culture advice. Posted times below are EST. Click here to register: [aos webinars registration](https://www.aos.org/orchids/webinars/registration) and they will send you the link.

Until we meet again, hopefully SOON, stay healthy and Happy Growing. (By the way, I've included below an amusing AOS article by M.O Carpenter.)

Lynne Murrell



**Webinars-Coming Attractions!**

*Let's Grow Together!*

	March 16, 2022 8:30pm EDT Wednesday	March 22, 2022 8:30pm EDT Tuesday	April 19, 2022 8:30pm EDT Tuesday	April 27, 2022 8:30pm EDT Wednesday
<b>When</b>				
<b>Topic</b>	<b>The Story of Jewel Orchids</b> Glistening Gems of the Forest Floor	<b>Greenhouse Chat (Orchid Q&amp;A)</b> <i>Send in your Questions!</i>	<b>More on Modern LED Lighting</b> Answering Your Questions	<b>Greenhouse Chat (Orchid Q&amp;A)</b> <i>Send in your Questions!</i>
<b>Presenter</b>	Nicholas Rust Orchid hybridizer with a passion for terrestrials	Ron McHatton Chief Education and Science Officer	Kelly McCracken Owner High Desert Orchids, Miniature Orchid Specialist	Ron McHatton Chief Education and Science Officer

**REGISTRATION REQUIRED:** <http://www.aos.org/orchids/webinars.aspx>  
Cannot make it on the scheduled date or time? No need to worry. Register anyhow!  
*Webinar announcements are posted to Facebook, Instagram and in the AOS Corner of your Affiliated Society's newsletter.*  
We digitize the webinars and they are available to view at your leisure.  
GREENHOUSE CHAT Webinars are indexed by topic for future viewing.  
Send your Greenhouse Chat questions and photos to: [greenhousechat@aos.org](mailto:greenhousechat@aos.org)



**Sonoma County Orchid Society Show & Sale,  
March 26 & 27**

Sat. 10am-5pm, Sun.10am-4pm,  
Santa Rosa Veteran's Bldg, 1351  
Maple Ave, Santa Rosa. Free parking.  
\$10, children 12 and under free.  
Premium vendors from all over  
California, Member Plant Sales and  
Skill Sessions:  
How to Grow & Bloom your Orchids -  
Growing & Repotting Cymbidiums -  
Hardy Outdoor Orchids -  
Growing Orchids Outdoors in the Bay  
Area For details: [Sonoma Orchid  
Society](http://www.sonomaorchid.com) (Masks/proof of vaccination  
required).



**2022 Cymbidium Collector's Online Auction**  
Presented by:  
*Gold Coast  
Cymbidium Society*  
March 17 to  
March 19, 2022

Bidding opens: Thurs March 17, 5:00 pm  
Bidding closes: Sat March 19, from 1:05 to 3:30 pm  
Plant pick-up: Sun March 20, 12:15 - 2:30 pm at 605 Parkside Way, San Mateo  
*NO Shipping! Pick-up only.*

For Auction catalog, photos, bidder information, and link  
to online auction website - go to:  
[www.GoldCoastCymbidiumSociety.org/auction.html](http://www.GoldCoastCymbidiumSociety.org/auction.html)

Auction features:  
- Cymbidiums and companion orchids  
- Plants in spike  
- Species  
- Pelorics and feathered  
- Rarely available Show & Award winners!

Any questions email: [auction.gccs@gmail.com](mailto:auction.gccs@gmail.com)

Cym. Mount Vision 'Halekalah' HOCAOS, JCOAS  
Photo courtesy of Audrey Young-Tarler

Rarely available Show & Award  
Winners! Click here for full  
description of Gold Coast  
Cymbidium Society on line  
auction. [On line auction](http://www.GoldCoastCymbidiumSociety.org/auction.html)

**GCCS Cymbidium Orchid  
Show & Sale  
Saturday, April 9, 2022  
10 am - 4 pm  
Community Activities  
Building  
1600 Roosevelt Ave,  
Redwood City**

For details contact: [Gold Coast  
Cymbidium Society](http://www.GoldCoastCymbidiumSociety.org)



## California Orchids Spring Sale! Saturday, April 16, 9-4 pm

Mary Nisbet is having her ever popular Spring Sale. Lots of Orchids! In and out of flower, seedling to specimen sizes, mounted orchids and potted orchids, orchid supplies, happy, healthy plants. NEW Things: Rhipsalis (epiphytic cactus), Birds Nest Ferns, Bromeliads (gorgeous big ones) Tillandsias (many sizes).

**515 Aspen Road  
Bolinas, CA  
415 -713-0203  
email: [info@californiaorchids.com](mailto:info@californiaorchids.com)  
Masks Required**

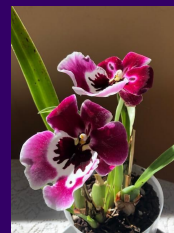
# Show and Tell



## Show and Tell

Here are links to past few months of MOS Members Show & Tell. Thank you for your outstanding submissions. Submit up to three for March Show and Tell to [marin.orchids@gmail.com](mailto:marin.orchids@gmail.com)

Click here to view:  
[October Show & Tell](#)  
[November Show & Tell](#)  
[January Show & Tell](#)  
[February Show & Tell](#)  
[March Show & Tell](#)



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## RENEW YOUR 2022 MOS Membership

We enjoy you as a member of The Marin Orchid Society. Our members are the best; friendly, knowledgeable, and willing to share and to volunteer for MOS activities.

It is time to renew your membership for 2022. Marin Orchid Society membership is \$25 per household per year. MOS activities each year include: 10 meetings (7 or 8 of which feature great speakers, one which is devoted to our members), our Holiday Dinner and our member summer BBQ, plus one auction with great deals on orchids and other treasures. One meeting includes our member ice cream social/fun night.

Beyond that, we create award-winning displays at the Pacific Orchid Exposition and at the Marin County Fair when these events are operative. These are great opportunities for current members to display your orchids to huge crowds.

You can renew in a couple of ways:

- Mail your check, made out to "Marin Orchid Society", to Naoko Nojiri at: Marin Orchid Society, PO Box 14, Larkspur, CA 94977.
- Or you can do it online by going to: [Marin Orchid Society Membership form](#) Simply complete the form. You can even pay via PayPal.

Marin Orchid Society is a 501(c)3 organization so some portion of your membership (and donations to MOS) may be tax deductible (please check tax regulations).

Thank you for being an MOS member. We will see you at upcoming MOS events.



**amazon smile**  
You shop. Amazon gives.  
Help us every time you shop Amazon.

**Please support MOS!**

Are you an Amazon shopper? If so PLEASE support MOS at no cost to you. AmazonSmile is a website operated by Amazon with the same products, prices and shopping features as Amazon.com. When you shop on AmazonSmile, the Foundation will donate 0.5% of the purchase price of eligible products to MOS. You need to click on THIS link each time you shop so put it in a convenient place: [Amazon smiles](#)



**SOME NURSERIES FOR YOUR ORCHID SHOPPING PLEASURE THAT ARE OPEN CERTAIN DAYS OF THE WEEK, BY APPOINTMENT ONLY OR TO ORDER ON LINE.**

**TELEPHONE OR EMAIL TO REQUEST DETAILS:**

Brookside Orchids, 2718B Apine Rd,  
Menlo Park, CA  
[brookside-orchids.com](http://brookside-orchids.com) 650 854 3711



VectorStock® VectorStock.com/2500996

D&D Flowers, 169 First Ave., Daly  
City, CA

Golden Gate Orchids, 225 Velasco Ave., San Francisco, CA  
tmperlite@gmail.com 415 467 3737

Shelldance Orchid Gardens, 2000 Hwy 1, Pacifica, CA  
shelldance.com 650 355 4845

For supplies: Flori-Culture Orchid Supplies, 7621 Fair Oaks Blvd., Carmichael  
flori-culture 916 333 4885

d.olivas@comcast.net 925 969 1246

California Orchids, 515 Aspen Rd, Bolinas, CA  
info@californiaorchids.com  
415 868 0203

Gold Country Orchids, 390 Big Ben Rd, Lincoln, CA  
gcorchids@aol.com 916 645 8600

Paph Paradise, 390 Big Ben Rd., Lincoln, CA  
paphparadise.com 209 727 5265



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## MOS Board of Directors - Join Us!

President - Ron Ludwig, Vice-President - Sandra Merlo, Treasurer - Naoko Nojiri, Secretary - Cathy Thompson, Members at Large - Carolyn Fisher, John Merlo, Terumi Leinow. You may reach the MOS Board by calling: 415-895-0667.

Next Board meeting is April 7, Virtual Zoom meeting, 7:00 pm. Members are welcome to attend with advance notice. Contact Ron for details.

**2022 MOS Memberships are now due. Mail your check to: Marin Orchid Society | P. O. BOX 14, Larkspur, CA CA 94977.**



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## The (Orchid) Doctor Is In!

- Have a problem plant, or maybe just need a little advice on which orchids might grow well in your conditions, when to water, or why your orchid just will not bloom?
- Ask the Doctor! Just send us an email with your orchid questions. Simply write "Orchid Doctor" in the subject line of your email: [marin.orchids@gmail.com](mailto:marin.orchids@gmail.com).



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## Useful Resources for Orchid Lovers

### Useful Links:

- [Marin Orchid Society](#)
- [American Orchid Society](#)
- [San Francisco Orchid Society](#)
- [Online Orchid Species Identification](#)
- [California Sierra Nevada Judging Center](#)

### American Orchid Society: [AOS.org](#)

- You may download a beginner's guide to growing orchids.
- Membership is inexpensive--digital membership is available--and includes online seminars and more.
- AOS Judging Centers Info and Locations- [AOS Judging Centers Nearby](#)

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## Marin Orchid Society Purpose and Vision

The purpose of the Marin Orchid Society, our Mission and Vision, is:

- To provide support for those having common interests in the appreciation and culture of orchid plants, to broaden their interests and improve their knowledge
- To acquire and distribute to the members practical and scientific information about the collection, culture and propagation of orchids
- To arrange the dissemination of information through exhibits, lectures, access to publications, and any other means, for the encouragement of orchid growing
- To cooperate in and take part in activities of other Societies with purposes similar to those of this Society.

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## 2022 Marin Orchid Society Calendar

our meetings will continue to be Virtual until further notice

March 22: Virtual Meeting - Speaker Ernesto Sandoval

April 26: In Person Meeting - Speaker Bob Hamilton

May 24: Virtual Meeting - Speaker TBD

June 28: Virtual Meeting - Speaker TBD

July 1-4: Marin County Fair (To Be Determined)

July 26: Virtual Meeting - Speaker TBD

August 28: No regular meeting - summer BBQ

September 27: Virtual Meeting - Speaker TBD

October 25: Auction Night

November 23 Virtual Meeting - Speaker TBD

December 6: Holiday Dinner TBD

December 27: No regular meeting

[Join or Renew Your Membership](#)



## OTHER ORCHID SOCIETIES' MEETINGS

First Monday: Carmel Orchid Society meeting; The First Presbyterian Church, 501 El Dorado Street, Monterey; [Carmel Orchid Society](#)

First Tuesday: San Francisco Orchid Society meeting; San Francisco County Fair Building, Golden Gate Park, 9th Avenue and Lincoln Way; [San Francisco Orchid Society](#)

First Wednesday: Sacramento Orchid Society meeting; Odd Fellows Hall, 1831 Howe Ave. (921-0569), Sacramento; [www.sacramentoorchids.org](http://www.sacramentoorchids.org).

First Wednesday: Santa Maria Orchid Society meeting; Veterans' Memorial Center, 313 W. Tunnell Street, Santa Maria.

Second Tuesday: Sonoma County Orchid Society meeting; Veterans Building, 1351 Maple Avenue, Santa Rosa (across from the Fairgrounds) [Sonoma County Orchid Society](#)

Second Tuesday: Monterey Bay Orchid Society meeting; Lincoln Ave Presbyterian Church, 536 Lincoln Ave, Salinas; (831) 663-3953

Third Monday: Orchid Society of California; Lakeside Park Garden Center, 666 Bellevue Avenue Oakland; [California Orchid Society](#)

Third Tuesday: Coastal Valley Orchid Society; Lompoc, CA; [Coastal Valley Orchid Society](#)

Third Friday: Gold Coast Cymbidium Growers meeting; San Mateo Garden Center, 605 Parkside Way, San Mateo; Weegie Caughlan at [goldcoastcymgrowers@gmail.com](mailto:goldcoastcymgrowers@gmail.com).

Second Friday: Napa Valley Orchid Society; 7:00 pm at Napa Senior Activities Center 1500 Jefferson St. Napa CA 94558. [www.nv-os.org](http://www.nv-os.org)

Fourth Friday: Peninsula Orchid Society, 7:00 pm, San Mateo Garden Center, 605 Parkside Way, San Mateo. [Peninsula Orchid Society](#)

[AOS Growing Tips for March/April](#)

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