

# Delaware Orchid Society

Volume 9, Issue 7

December 2011

General Meeting: Tuesday,  
December 13

Speaker: Tom Miranda,  
Smithsonian Institute

Topic: "Hardy Orchids for the  
Mid-Atlantic Gardener"

Tom Mirenda has been the Orchid Collection Specialist at the Smithsonian Institution for the last 10 years, where he cares for and curates an extremely diverse collection of orchid species and hybrids from all over the world. His position includes developing and producing huge educational exhibits using the collection plants that last up to 4 months. and visited by hundreds of thousands of visitors.

Trained originally as a Marine Biologist, Tom made the switch to plants and orchids in his late 20s while living in Hawaii. Since then he has worked with orchids at NY Botanical Garden, Brooklyn Botanic Garden and an extensive private collection at Greentree Estate in Long Island. Tom was also the floor manager at the New York International orchid Show for many years during this period. For the last 6 years, Tom has contributed two columns each month for ORCHIDS magazine and is developing a new book based on those writings. Tom travels frequently around the US and internationally making presentations to diverse audiences, from scientists to the general public, about orchid ecology, pollination biology, strategies for orchid conservation. He is passionate about seeking collaboration between the worlds of Botanic Gardens, the hobbyist community, commercial growers and scientists to work together toward the goal of protecting orchids and their habitats. Currently working on a project to coordinate and centralize North American orchid conservation efforts, Tom hopes to extend the influence to other parts of the world where orchids are imperiled.

**Join some fellow DOS members  
for dinner before the meeting at  
Stanley's Bar & Grill  
at 5:30– 5:45 p.m.**

**If you would like to join us, confirm  
your attendance with Phyllis Bailson  
(302-475-6034)**

## DOS STILL NEEDS YOUR HELP!

The Board is looking for some new, cool, ideas for trips, speakers, events the society members may be interested in doing. If you have any suggestions, contact Scott Cunningham ([scottdanielcunningham@gmail.com](mailto:scottdanielcunningham@gmail.com)).

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# AQ Plus™

Version 4.3  
September 2011



*Raphiopeddon Sierra Scene 'Sweetbay', AM/AOS*  
(Sierra Skyline x S. Gratrix)  
Grower: Peter and Gail Furniss  
Photographer: Maureen Palignano

American Orchid Society  
by Howard Bronstein  
copyright 2011

## Requirements

Internet service desirable but not necessary, and a PC with Windows 2000 through Windows 7, a screen resolution of 1024 × 768 or higher, minimum 256 MB RAM, and a DVD reader. MAC users need to have Virtual PC or Parallels Desktop for Intel/Mac. The program and photographs in the product currently need approximately 3 gigabytes of hard-drive space, with the potential to grow to 5 or 6 gigabytes. Each annual subscription license may be used for two computers per household.

## Version 4.3 Features

- All AOS awards data from 1932 through August 12, 2011 in *Awards Quarterly* format
- 54,481 color AOS award images, 1,064 TOGA, 3,464 JOGA and 1,355 TPS international images with first through fourth generation image trees available
- Award searches by abbreviation, genus, name, cultivar, award, date range, exhibitor, event name and event location
- *Sander's List of New Orchid Hybrids* with data through August 2011 (Under license from the RHS)
- **NEW**—*World Checklist of Monocotyledons* with species searches through June 2011 (Under license from Royal Botanic Gardens, Kew)
- List of all genera with pronunciation guide for genus and make-up of hybrid
- Revised and current June 2011 Edition of the *Handbook on Judging and Exhibition*
- **NEW**—Species Identification Task Force instructions and forms
- AOS Judging Center and Judges' revised listings as of May 30, 2011
- Searches for hybrids by name or parents; for six generation family tree or list of progeny
- See 15 thumbnail award photos on one screen
- View a color award photo and the award description on the same page



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## AOS Corner

With the holidays approaching I thought I could offer some suggestions for gifts for the orchid enthusiast in your lives.

- A gift of membership in the American Orchid Society is a great gift for anyone who may not already a member, or a renewal of their membership. To order a gift membership, contact AOS Headquarters 561-404-2050.
- Access to OrchidsPlus (the web-based AOS awards program also known as AQPlus). For non-members, please call Pam at 561-404-2050 or send AOS a check to Pam's attention and AOS can set up a subscription to AQPlus offline.
- The 2012 AOS Calendar is now available and is available with a 10% discount for AOS Members with free shipping. The new calendar is a 14-month calendar and loaded with fabulous orchid photographs.
- Many of the AOS published books are also located in the Store on the AOS website and would make a great gift.
- Support your local orchid vendors or those in the *Orchid Source Directory*. Many of these vendors support local societies' fundraising efforts, it is a great time to support their businesses in return. In addition, many of them have holiday specials.

Happy Holidays!

Lynn Fuller, Chair  
AOS Affiliated Societies Committee

## ORCHID SEMINAR AND REPOTTING CLINIC

December 3, 2011

10 am- Noon

Delaware Seed and Garden Supply, LLC  
3624 Kirkwood Highway  
Wilmington, DE 19808  
Phone 302-999-1616

**Join Delaware Orchid Society members  
as they present a seminar on orchid care  
and answer questions you have about  
your orchids.\*\***

Bring your orchids with you and for a nominal fee,  
you can get your orchids repotted. The seminar is  
FREE.

\*\* DOS volunteers are needed. Reserve your time early  
to help out by contacting Scott Cunningham. Limited  
space is available for DOS volunteers.

## **THE DELAWARE ORCHID SOCIETY**

### **Officers**

Scott Cunningham, President  
John Rogan, Vice-President  
Joel Balogh, Treasurer  
Nancy Sato, Secretary

### **Board of Directors**

Olivia Landis  
Marie-Christine Viallet  
Dave Emerson  
Lynn Fuller  
Adrian Ross  
Fr. Jerry Ozlanski, Past President

### **Committee Chairs**

Program	Mali Rao
Library	Vicki Gawiak
Show Table	John Rogan
Membership	Vera Lee Rao
Hospitality	Lori Weaver
	Maryann Ozlanski
	Vicki Gawiak
AOS Rep	Lynn Fuller



**Delaware Orchid Society Meetings are  
held the second Tuesday  
of each month  
(except July and August) at  
Emmanuel Presbyterian Church, 1006  
Wilson Road, Wilmington, Delaware at  
7 PM.**

**Visitors are always welcome.**



Check out our website!

[www.delawareorchidsociety.com](http://www.delawareorchidsociety.com)

Doors open: 7:00 p.m.  
Social/Judging 7:30 – 8:00 p.m.  
Business Meeting: 8:00 – 8:15 p.m.  
Speaker: 8:15 – 9:00 p.m.  
Show Table/Raffle/Door Prizes: 9:00

## **CALENDAR OF EVENTS**

DECEMBER 4 ORCHID POTTING DEMONSTRATION

PLACE: DELAWARE SEED & GARDEN

TIME: 11:00 AM

DECEMBER 13 DOS GENERAL MEETING

PLACE: EMMANUEL PRESBYTERIAN CHURCH

TIME: 7:00 PM

Speaker: Tom Mirenda, Smithsonian Institute

JANUARY 10, 2012 DOS GENERAL MEETING

PLACE: EMMANUEL PRESBYTERIAN CHURCH

TIME: 7:00 PM

Speaker: Karen Zolnay. Hawk Haven Orchids

FEBRUARY 10 - 12, 2012 DEEP CUT ORCHID SHOW

DEERBORN MARKET, HOLMDEL, NEW JERSEY

FEBRUARY 14 DOS GENERAL MEETING

PLACE: EMMANUEL PRESBYTERIAN CHURCH

TIME: 7:00 PM

Speaker: Bayard Saraduke, Pinelands Orchid Society

MARCH 4-11 PHILADELPHIA INTERNATIONAL FLOWER SHOW

PLACE: PENNSYLVANIA CONVENTION CENTER

MARCH 13 DOS GENERAL MEETING

PLACE: EMMANUEL PRESBYTERIAN CHURCH

TIME: 7:00 PM

Speaker: To Be Determined

MARCH 23-25 INTERNATIONAL ORCHID SHOW & SALE

PLACE: LONGWOOD GARDENS

APRIL 10 DOS GENERAL MEETING

PLACE: EMMANUEL PRESBYTERIAN CHURCH

TIME: 7:00 PM

SPEAKER: TO BE DETERMINED

APRIL 14 ANNUAL PLANT AUCTION

PLACE: EMMANUEL PRESBYTERIAN CHURCH

TIME: 10:00 AM

MAY 8 DOS GENERAL MEETING

PLACE: EMMANUEL PRESBYTERIAN CHURCH

TIME: 7:00 PM

Speaker: Leon Glictenstein

JUNE 12- DOS BANQUET

PLACE: GREENVILLE COUNTRY CLUB

Speaker: David Off





Bulb. Medusa  
Best Grown - Steve Chang

Below: Unknown Miltoniopsis  
Best Grown – Steve Chang



## NOVEMBER SHOW TABLE

### GREENHOUSE

<i>Masd. belua</i>		Vera Lee & Malli Rao
<i>Cirr. tingabarinum</i>		"
<i>Masd. veitchiana</i> var.		"
<i>grandiflora</i>		
<i>Neostylis</i> Lou Sneary		Mary Ann Ulmann
<i>Psycopsis</i> Mariposa Alba		"
<i>Cattlianthe</i> Portia		"
'Cannizaro'		
<i>Den.</i> Somkiat Blue		John Rogan
<i>Lc.</i> Adolph Hecker 'Lynn'		"
AM/AOS		
<i>Aerangis biloba</i> 'Suzy'		Duane & Judy Erdmann
<i>Zootrophion trivalve</i>		"
<i>Bulb. medusa</i>	Best Grown	Steve Chang
Unk. <i>Miltoniopsis</i>	Best Grown	"
Unk. <i>Miltoniopsis</i>		"
<i>L. anceps</i> var. guerrero		"
<i>C. guttata</i>		"

*Miltonidium* Rosy Sunset

Henny Reiter

### NON-GREENHOUSE

<i>Masd. (floribunda X</i>	Best Grown	Duane & Judy Erdmann
<i>pescadoensis)</i>		
<i>Paph. barbigerum</i>	Best Grown	"
<i>Phal. equestris</i>		"
<i>Doritis pulcherrima</i> var.		"
<i>coerulea</i>		
<i>Oncidioda</i> Chaculatum		Dave Emerson
<i>Rlc.</i> Hwa Yuan Beauty 'Spice		"
Girl'		
<i>Paph.</i> (Green Delight X Stone		Sol & Bee Fenick
Lovely)		
<i>V.</i> Pakchong Blue		Adrian Ross
<i>Dtps.</i> Dyah Redita 'Hawaii'		Harry Kutch
<i>Milt.</i> Xenia		Phyllis Railson



# Botanists discover 'remarkable' night-flowering orchid

By Mark Kinver and Victoria Gill Science reporters, BBC News and Nature



The *Bulbophyllum nocturnum* is the first orchid species, out of about 25,000, to only flower at night

A night-flowering orchid, the first of its kind known to science, has been described by a team of botanists.

Experts say the "remarkable" species is the only orchid known to consistently flower at night, but why it has adopted this behaviour remains a mystery.

The plant was discovered by a Dutch researcher during an expedition to New Britain, an island near Papua New Guinea.

The findings appear in the Botanical Journal of the Linnean Society.

"It was so unexpected because there are so many species of orchids and not one was known [to flower] at night only," said co-author Andre Schuiteman, senior researcher and an orchid expert at the Royal Botanic Gardens, Kew.

"It was quite remarkable to find one, after so many years of orchid research, that is night-flowering," he told BBC News.

The specimen was discovered by co-author Ed de Vogel during a field trip in a region of lowland rainforest on the Pacific island.

## One-night stand

Its unique flowering behaviour only came to light after the specimen was taken back to the Netherlands.

Dr de Vogel took the plant home in an attempt to understand why its buds appeared to wither when they reached a size that would normally produce 2cm flowers.

To his surprise, he observed the flowers open a few hours after dusk and remain open until a few hours after sunrise.

The flowers opened for one night only, explaining why the buds appeared to be preparing to open one day, yet be withered the next day.

The specimen has been identified as belonging to the *Bulbophyllum* genus, which - with about 2,000 species - is the largest group in the orchid family.

While there are a number of orchids that do attract night-time pollinators, *B. nocturnum* is the first known species that exclusively flowers at night.

Mr Schuiteman said it still remained a mystery why the plant had developed such behaviour.

"We think related species are pollinated by tiny flies that think they are visiting fungi," he explained.



"The flowers mimic fungi, that's what the details of the flowers look like they do.

"The flies are looking for somewhere to lay eggs, and it is most probably [a species] that forages at night."

He added: "The orchid probably has a smell, not detectable by humans, to attract insects from a distance - and when they are nearby, the shape and physical aspects of the flower probably play a role too.

### 'Double-edged sword'

Mr Schuiteman said the exact reason why *B. nocturnum* only flowered at night would remain a mystery until further field studies had been completed.

Researchers speculate that the orchid is pollinated by tiny midge-like flies

However, time may be against them as the location in western New Britain where the original specimen was found lay within a logging area.

"It was previously inaccessible but now the area has been opened by logging," Mr Schuiteman said, adding that was an area that needed to be explored because there were probably many more species waiting to be described.

He said the logging activity was a double-edged sword because Papua New Guinea's government had granted logging licences in the area meant that it created roads that had allowed the plant hunters to carry out their exploration, yet it was an activity that could threaten the long-term survival of the species.

"My colleague who discovered it got permission from the logging company to go into the area, they even gave him a car to use.

"They realised that it would have been a shame to log the trees and destroy the orchids because they would be left lying on the ground exposed to full sunlight."

He called for areas to be left untouched: "It is the government that gives permits to log a particular area, so we should be asking them to protect areas and not issue permits for everything."

### DAY OR NIGHT?



- Although the tiny *Bulbophyllum nocturnum* is the first known night-flowering orchid, it is not uncommon for plants to flower at night. Most orchids though, flower both day and night.
- The most famous night-flowering plant is the queen of the night cactus (*Selenicereus grandiflorus*) (see above). Each individual dinner plate-sized flower opens for one night per year (although each cactus can have several flowers). The blooms attract pollinating bats.
- It is not clear exactly what pollinates *Bulbophyllum nocturnum*, but scientists think the job is carried out by nocturnal flies. Many night-flowering orchids are strongly scented in order to attract moths, but this orchid is the wrong shape and size for that.
- The orchid family has evolved some special tricks to attract its pollinators. Many look like pollinating insects, in order to fool those insects into attempting to mate with them. Some even smell like rotten meat, which attracts flies.

Copied from: <http://www.bbc.co.uk/news/science-environment-15818662>



# J&L Orchid's Holiday Open House

December 2, 3 & 4  
9:00 to 4:00 each day

We have a large and varied selection of blooming orchids ideal for giving or for making your home glow for the holidays. Come enjoy our tasty homemade treats while you shop.

We will continue to have a nice array of unusual and showy blooming orchids throughout the holiday season.

In bud and bloom, we are offering longlasting Cymbidiums, white & green Lady Slippers, as well as Masdevallias, Maudiae type Lady Slippers in a variety of colors, and Miltonias. In addition we have a wide range of Oncidium Intergenerics in colors of red, burgundy, white and yellow, some of which are highly fragrant. You will not find quality orchids like this at your local grocery store. We also have full plants of bright red Anthuriums.

Check out our website, [www.jlorchids.com](http://www.jlorchids.com) for on-line shopping. A beautiful blooming orchid makes a wonderful holiday gift. We can ship anywhere in the US.

Hope to see you soon. Happy Holidays!

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(203) 261-3772 [jlorchid@snet.net](mailto:jlorchid@snet.net)  
[www.jlorchids.com](http://www.jlorchids.com)