

The Orchid Enthusiast

The Newsletter of the Central New York Orchid Society

Affiliated with the American Orchid Society and Orchid Digest

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Editor's Note:

Contributions to the Orchid Enthusiast by members of the CNYOS are welcome. Articles, pictures, or ideas for discussion subjects should be submitted by the first week of the month before the next meeting to: egalson756@gmail.com

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It's time to renew your membership!
Individuals \$20
Family \$22

Send check to:
Carol Haskell, Treas.
102 Wynthrop Rd
Syracuse NY 13209

Next Meeting: Sunday February 2, 2 PM. Jim Marlow Will Speak.



I couldn't resist printing the picture and note from last year:

Most of us are familiar with Jim Marlow, and know that his talks are both informative and interesting .

Jim will also have plants to sell, so we will not have a raffle table, but we will have a show table, so bring your blooming beauties as usual.

Many of us have visited his greenhouse near Rochester during his various open houses, and enjoyed looking at and buying his wonderful orchids. If you look at the picture above, you will see some familiar faces engaged in that activity. Besides plants, the open houses feature great food. Jim's last open house was last month on December 21.

President's Message

Cold enough to freeze.....whatever you choose. I'll be glad when we get back to a 'norm winter.

Those of you with greenhouses - how do you manage to keep the temps for your orchids The weather should be a little more forgiving by the time of our meeting so come out and enjoy the afternoon. Jim Marlow will be speaking (topic TBA) but we know he's always interesting! Very glad to have him coming out to speak again and please check with him in case you would like to pre-order.

I'm setting up some great plans for March - more info at the meeting in February.

The bus for SEPOS is full!! I will be sending out a list to all who have reserved.

.....See you all at the meeting - Business will be kept short so that we can enjoy our program and all get on our way early since it's Super Bowl Day !!!.....
Sue Finger

JANUARY SHOW TABLE

Please note especially all names and abbreviations in boldface, and correct or **complete** your records, including parentage and new registrations. Next time you present the plant, include name and parents.

Cypripedium Alliance

<i>Paph.</i> Bailey's Bid (<i>fowliei</i> × <i>henryanum</i>)	Cohen
<i>Paph.</i> Little Trouble (<i>barbigerum</i> × <i>charlesworthii</i>)	Weller
<i>Paph.</i> Suk's Web (Hsinying Rubyweb × <i>sukhakulii</i>)	Burritt
<i>Paph.</i> Mumbo Jumbo × <i>lawrenceanum</i>	Stevener
<i>Phrag.</i> <i>besseae</i>	Galson
<i>Phrag.</i> <i>Sedenii</i> (<i>longifolium</i> × <i>schlimii</i>)	"

Cattleya Alliance

<i>Rlc.</i> Mari's Melody (<i>C.</i> Mari's Song × <i>Rlc.</i> Chyong Guu Chaffinch)	Burritt
<i>Ett.</i> Volcano Trick (<i>Ctt.</i> Trick or Treat × <i>Epi.</i> <i>stamfordianum</i>)	"
<i>Ctt.</i> Rajah's Angel (Rajah's Ruby × <i>C.</i> Bright Angel)	Coleman
<i>Epic.</i> René Marqués (<i>Epi.</i> <i>pseudepidendrum</i> × <i>C.</i> <i>Claesiana</i>)	Ditz
<i>Cattleya</i> <i>cernua</i>	Witkin

Oncidium Alliance

<i>Alcra.</i> Tahitian Dancer (<i>Vashon</i> × <i>Onc.</i> <i>sotoanum</i>)	Burritt
<i>Onc.</i> Tsiku Marguerite (<i>Twinkle</i> × <i>sotoanum</i>)	"
<i>Mtdm.</i> Pacific Ripple (<i>Far Side</i> × <i>Onc.</i> Ron's Rippling Delight)	"
<i>Onc.</i> Marko Holm (<i>Petit Port</i> × <i>Refulcis</i>)	Coleman
<i>Gom.</i> Jorge Verboonen (<i>imperatoris-maximiliani</i> × <i>marshallianum</i>)	"
<i>Onc.</i> Kendrick Williams (<i>Autumn</i> × <i>Ray Buckman</i>)	"
<i>Ons.</i> Wildcat (<i>Rustic Bridge</i> × <i>Onc.</i> <i>Crowborough</i>)	"
<i>Trichopilia sanguinolenta</i>	Witkin

Vandaceous

<i>Phal.</i> Chiada Hebe (<i>I-Hsin Sesame</i> × <i>I-Hsin Canary</i>)	Burritt
<i>Chsch.</i> <i>sweelimii</i>	Witkin
<i>Tubecentron</i> (<i>Tct.</i>) Hsinying Girl (<i>Crtn.</i> <i>fessellii</i> × <i>Niu</i> Girl)	Capella

Dendrobium Alliance

<i>Den.</i> unknown	Weller
<i>Den.</i> unknown	Capella
<i>Den.</i> Baby Pink (<i>dicuphum</i> × <i>lithocola</i>)	Coleman
<i>Den.</i> <i>moniliforme</i>	"
<i>Den.</i> Suwan Beauty × <i>lasianthera</i>	"
<i>Den.</i> Little Green Apples (<i>Green Elf</i> × <i>convolutum</i>)	"

Pleurothallids

<i>Pths.</i> <i>condorensis</i>	Witkin
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Miscellaneous

<i>Lip.</i> <i>nutans</i>	Coleman
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Iris Cohen If you have any questions, don't hesitate to contact me,
Iriscohen@aol.com or 315 461-9226

Minutes of January Meeting

January was the Member silent Auction.

Participants were given a chance to look over the plants and do some initial bidding before the meeting started.

Treasurer's Report-Annual Report submitted by Carol Haskell. We have \$3710.94 in the bank..

New Business

1. Jim Marlow will be our speaker in February. He will bring plants for our compotting meeting in March, which will be stored by Sue and Jerry until the March meeting.
2. Bus Trip to Philadelphia for Orchid Show at Drexel University will be 4/12/14
Sue has arranged for a 34 seat bus with bathroom facilities. There are 3 seats left. Reservations to be filled by CNYOS members first, then open to GROS and STOS members depending upon availability. Jim Marlowe will be a Vendor there. The cost to enter the Museum is \$15. Sue will check on a group rate for the Museum.
3. Trip to GROS on April 7 Jan and Judi will set up, Sue and Jerry will help Judi and others who are there will tear down.
4. STOS is 4/25/14. Sue and Jerry will help with set-up. More help is needed.
5. Sign In Sheets- sign in at each meeting for the exciting President's Award, then the names will be cut into strips, and a name picked for a "surprise".
6. It's time to pay dues for 2014.

Respectfully submitted,
Monica Kot

Refreshment Volunteers

February	1. Bob Pfrom	2. Judi Witkin
March	1. Barbara Weller	2. Monica and Bill Kot
April	1 (May coincide with Trip to GROS)	
May	1. ?	2. ?
June	Spring Picnic	Everyone Contributes
September 2013	1. Jack and Deb Hasse	2. ?
October	Show	
November	1. David Ditz	2. ?

Treasurer's Report

Assets as of 1/5/14	
Cash Account	115.00
Key Bank	<u>3595.94</u>
Total	3710.94

Events Calendar

February 2	CNYOS Meeting – Jim Marlow will talk
March 2	CNYOS Meeting - Compotting Clinic
April 6	Possible Car Pool to Rochester for GROS Show
April 12	CNYOS Bus trip to Philadelphia for SEPOS Show
April 26,27	STOS Show and Sale
May 4	CNYOS Meeting - Club auction
June 3 or later	CNYOS Picnic
July & August	No Meetings
September 8	?
October 4-5	CNYOS Show and Sale at Beaver Lake (Set-up Oct 3)

Orchid Research Funded by AOS

The AOS established a Research Committee in 1951 to assist and stimulate research on orchids. Since then nearly 200 grants and fellowships totaling more than \$1.1 million have been provided to worthy students. The Society has supported research to study a wide range of subjects. Topics range from practical to highly fundamental. AOS funding of orchid research has been provided to scientists throughout the world.

In 1990, the Society expanded its grant-giving initiatives by beginning a new program to sponsor the education of doctoral students. In this program, students compete for a Fellowship that provides funds that the student may use for research support, salary or tuition. The Fellowship is provided for three years, pending satisfactory progress toward the PhD degree. Recognizing that many worthwhile research projects do not fit the scope of PhD programs, the Society added a Masters Degree scholarship to its research funding mix. The scholarship, much like that of the PhD Fellowship, is for two years pending satisfactory progress.

The Society's commitment to orchid research has been international in scope. Funding has been provided to scientists working and studying in 31 states in the USA, and to institutions in 11 other countries -- Australia, Canada, Costa Rica, Guatemala, Israel, Malaya, New Guinea, Nigeria, Puerto Rico, Russia and the United Kingdom.

How does research help one to grow orchids? Isn't basic research esoteric? While specific research topics may indeed sound obtuse, the information obtained usually has practical implications. Before a practical research project can be initiated, a strong foundation of basic information is required. An example of the interrelationship between fundamental and practical research involves the study of flower senescence.

The American Orchid Society in 1973 provided support to Michael Strauss in Dr. Joseph Arditti's laboratory at the University of California at Irvine to document the events that lead to the natural wilting of Cymbidium flowers. He determined that, after pollination, a hormone (auxin) found within the pollen, triggered a second hormone (ethylene) that caused the flower to wilt.

This information was used by Dr. Sharman O'Neill from the University of California at Davis to propose a more detailed study with Phalaenopsis that was funded by the American Orchid Society in 1990. Her grant was entitled Molecular Genetic Regulation of Orchid Flower Senescence. The results of this research were the identification of two major genes that were responsible for inducing senescence or flower wilting (S.D. O'Neill, J.A. Nadeau, X.S. Zhang, A.Q. Bui and A.H. Halevy, 1993. Interorgan regulation of ethylene biosynthesis genes by pollination. Plant Cell 5:419-432).

Dr. O'Neill used this preliminary data to obtain a major grant from the U.S. Department of Agriculture to continue

this line of research. In a recent report, she states, "AOS funding provided the initial support that was necessary to initiate several lines of research that are now sufficiently advanced to attract funding from federal research agencies. This new funding provided the basis to substantially multiply AOS support and provides a strong base to more fully develop the molecular biology of orchids."

In 1991, the American Orchid Society funded Ms. Janette Nadeau, a doctoral student in Dr. O'Neill's laboratory, to Determine the Temporal and Spatially Regulation of Ethylene Forming Enzyme. This research carried Dr. O'Neill's work one step further by following the action of one of the two major genes involved in senescence (Nadeau, Zhang Nair and O'Neill, 1993. *Plant Physiology* 103:31-39).

In 1993, Mr. Ronald Porat, a doctoral student in Dr. Abraham Halevy's laboratory at the Hebrew University of Jerusalem, was funded to determine the Signal Transduction of Processes Involved in Pollination-induced Senescence Syndrome of Phalaenopsis Flowers. This research will use Ms. Nadeau's data to determine the exact molecule that signals the start of wilting. He determined that the onset of wilting is the result of an increase in the sensitivity of the flower to ethylene instead of an increase in its synthesis (Porat, 1994. *Lindleyana* 9:85-92).

In 1997, Drs. Halevy and O'Neill received \$240,000 in funding from the Binational Agricultural Research and Development Fund (BARD) to continue their collaboration for another three years.

Because of all of these AOS-funded projects, orchids became an important research subject in plant senescence studies. Many scientists throughout the world are now studying senescence in orchids. For example, Drs. Yi-Yin Do, Yi-Chiann Chen and Pung-Ling Huang at the National Taiwan University in Taipei have now isolated the gene response for recognizing ethylene (Do, Chen & Huang, 1999. *Plant Physiology* 119:1567).

Without a fundamental knowledge of the genetic and biochemical mechanisms involved in senescence, it is impossible to determine how to regulate the process and control flower wilting. The direct practical outcome will be the ability to produce orchid flowers that last significantly longer. Another important benefit of this research is that orchids are now recognized as being an important model system for studying flower senescence..

It should now be clear that before a practical research project can be initiated, a strong foundation of basic knowledge is required. The American Orchid Society and the research community need your support to continue to fund beneficial orchid research. Approximately half of the monies that the AOS uses to support research come from member contributions; the other half are funded by the income generated on the Society's permanent endowment funds. Additional resources are needed to expand the reach and impact of this important research. The AOS will continue to seek new support from the corporate and foundation community, but the nonprofit organization needs challenge support from orchid enthusiasts to leverage in securing this new support. Any financial assistance the AOS receives will aid in finding matching support from other sources.

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The CNYOS Newsletter, is a publication of the Central New York Orchid Society and is distributed to the Society's members ten times per year, prior to all club meetings, events and functions.

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The Central NY Orchid Society usually meets at St. Augustine's Church 7333 O'Brien Rd, Baldwinsville on the first Sunday of each month at 2:00 pm.

The Central New York Orchid Society
Your local AOS and Orchid Digest Affiliate
236 Lockwood Road
Syracuse, NY 13214

*February 1214 Issue – CNYOS Orchid Meeting February 2, 2 PM
at the Church - Jim Marlow Will talk.*