

Haworthia Display and Lecture Crown February Meeting

LAST MONTH'S MEETING FEATURED A GREAT talk by **Paul Carlberg**, a long-time friend of the CCSS who has also helped to run the Cactus and Succulent Society of Massachusetts for many years.

● Paul brought in, and artistically staged, a selection from his large collection of Haworthia, representing all the species that are now generally recognized. He told us about his cultivation methods under lights in winter and outdoors in summer, and clarified the somewhat Byzantine taxonomy of the genus. We also



“We are heading into a busy time of year for garden clubs.”

had a chance to check out the desert plants and other teaching collections at the UConn greenhouses.

● We are heading into a busy time of year for garden clubs. By the time you read this, our educational table at the **Connecticut Flower and Garden Show** will be packed up and

the succulent plants in the show will be back home, perhaps with a few blue ribbons.

● On March 23, we will have another display and opportunity to hand out flyers at the **Master Gardener's Symposium**. Of course, you should all be grooming your best plants for the CCSS Show and Sale, the first week in April.

● In March the CCSS will be at **Woodland Gardens** in Manchester. The primary item on the agenda will be final planning for the annual Show and Sale, but there will also be a free raffle of some interesting and unusual plants.

● After the Show in April, there will be a field trip in May (probably carpooling) to see **Fred Kattermann's** South American cactus paradise in northern New Jersey.

● In June there are plans in the works in conjunction with the CSSM for a bus trip to a more distant destination, possibly the **Coastal Maine Botanical Gardens**.

Matt Opel
President



Lecture, Show and Sale Highlight Assembly

By Becky Lynn, Secretary

OUR MEETING ON FEBRUARY 3 WAS held at the Torrey Life Sciences Building at UConn.

There were 22 in attendance including several from the Massachusetts Society, but no new members.

● **Paul Carlson** of the Cactus and Succulent Society of Massachusetts was our speaker. He brought along his most impressive collection of Haworthias including at least one representative specimen of each of the fifty-nine species, acknowledged by **Bruce Bayer**, a preeminent Haworthia authority.

● Paul keeps his Haworthias under twelve hours of light and only waters lightly every three weeks. He puts them outside in the summer under

Please continue on page 3, left column

To Be . . .

Sunday, March 3: The March meeting will be held at Woodland Gardens, 168 Woodland Street, Manchester, Connecticut. (860) 643-8474, www.woodlandgardensct.com

1:00 PM

Do Not Bring Chairs

Entrées: S-Z

Appetizers/Sides/Salads: A-G

Desserts: H-R

Saturday, April 6-Sunday, April 7:
The CCSS Thirtieth Annual Show and Sale. [pages 4, 5, 8-10]

The Connecticut Cactus and Succulent Society

President: Matt Opel, Ph.D. ;
 (860) 420-7253;
 matthew.opel@uconn.edu
Vice President: Chris Allen, (203) 371-8166;
 callen6164@att.net
Secretary: Ms. Becky Lynn; (203) 758-9549
Treasurer: Mr. Ken Mosher; (860) 742-8859;
 ken@spatulacity.com
Editor: LeRoy F. Saucier; (860) 228-7602
 saucier1@sbcglobal.net
Staff Photographer: Mr. Herbert (Sully)
 Sullivan; (860) 646-4809;
 irish_dragon98@yahoo.com
Society Website:
www.ctcactusclub.com

The CCSS Newsletter is published each month except January. The annual fee of \$12.00 allows membership to all members of an immediate family residing at the same residence and a subscription to the newsletter. Payment is payable to the Treasurer, Mr. Ken Mosher, 8 Bailey Road, Andover, CT 06232.

Connecticut Cactus and Succulent Society
 Editorial Office
 30 Pine Street
 Columbia, CT 06237-1516

Treasurer's Report

Income	
Dues	\$60.00
Book Sales	12.00
Expenses:	
February Newsletter	\$235.52
Speaker Honorarium	150.00
Fliers for April Show and Sale	106.81
Postage for Treasurer Federated Garden Clubs	27.60
Membership Dues	25.00
Sunshine Expenses	<u>7.43</u>
Total Income (Expense)	(\$480.36)
Bank Balance	\$12,222.15

The Canary Island Bellflower

By Dr. Matt Opel

CANARINA CANARIENSIS IS A TUBEROUS vine endemic to (the seventh-grade geography students out there are probably way ahead of me) the Canary Islands, off the coast of Morocco. It is a member of the family Campanulaceae, the bellflowers.



Canarina canariensis in bloom in February.

Photo by Matt Opel, PhD

The straggly stems produced by the tuber bear one to several large and strikingly colored flowers at their tips, during the depths of winter. The flowers lack any fragrance but literally drip with sugary nectar, which together with their shape and coloration suggest that they are primarily pollinated by birds. The flowers persist for an amazingly long time, with individual blooms lasting for almost a month.

The Canaries mostly have a Mediterranean climate, and the plant life from the islands is generally adapted to a winter-rainfall regime. *Canarina canariensis* is a strict winter grower, so the tubers sprout in autumn, grow for six months or so, then shed all of their above ground parts as the days get warmer and longer in the spring.

I store the Canarina pots almost dry for the summer dormant period,

with just an occasional splash of water to keep a little moisture below the soil surface. During the winter, the growing plants are kept in a cool, sunny greenhouse, given a shot of balanced liquid fertilizer every few weeks and watered to keep the soil consistently slightly moist. Canarina shoots are waxy and somewhat succulent, and the plants are fairly thrifty with water even when in full growth.

The *C. canariensis* plants here at UConn derive from seed collected by **Dr. Greg Anderson** on the island of Tenerife. The seed packet had been sitting around an office for seven years before Greg handed it off to me, and I planted the entire batch at once in a single pot, hoping to maybe get a couple of seedlings, if I was lucky. The pot was soon a lawn of little green shoots; it seems that *Canarina* seed remains viable for a long time. Separated out into individual pots of loose, well-drained soil, the plants reached maturity after one or two winters.



Close-up of Canarina flower in its female phase.

Photo by Matt Opel, PhD

Canarina flowers shed their pollen when they first open, but their stigmas (the female parts) only open up and become receptive much later, perhaps after several weeks. The technical term for this temporal separation of male and female activity is PROTANDRY, and it is probably a mechanism to encourage outcrossing and lessen inbreeding. The fruits of *Canarina* are supposedly edible, but I have not sampled them yet, myself.

Lecture, Show and Sale *continued from page 1, right column*

shade cloth until mid-September. Next year he hopes to have a hoop house to



Paul Carlson discussing his exhibit of Haworthias at the February meeting.

Photo by Herbert (Sully) Sullivan

keep them dry and control watering.

● As he spoke, he passed around some of the plants and told why a few were so difficult to obtain.

● Most Haworthias come from the west coast of South Africa, close to the ocean. If the sun is too hot, the roots will pull the plant down into the soil.

● He explained that some Haworthias are tricky to grow, slow to grow, do not pup, or they produce few seeds. They like to be in clay pots as the roots tend to rot in plastic.

● Our Show and Sale on April 6-7 was discussed. Set up is the Friday before. Plants to be entered in the judged show may only be brought in on Friday.

CSSA 2013 Convention

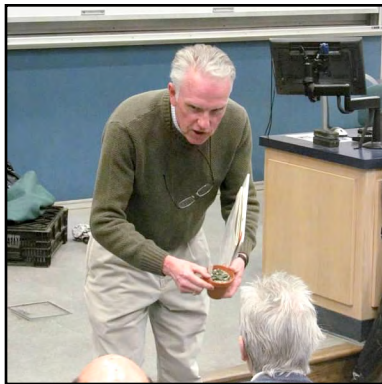
The Thirty-fifth Biennial Convention of the Cactus and Succulent Society of America will be held in Austin, Texas, June 15-20, 2013. All members of the Society are invited to join in the gathering which will feature world renowned authors and experts in the field of cacti and succulents. The web site for the convention is located at <http://cssa2013.com>. ○

● We need lots of workers for all three days. There are quite a few this year who have been good workers in years past, but are no longer able to help us. **Matt Opel** sent around a sign-up sheet for workers.

● We will be giving two five-hundred-dollar scholarships and one, five-hundred-dollar gift to the **Naugatuck Valley Community College** for greenhouse equipment in lieu of rent and security at the college during our Show and Sale there.

● A special auction of some of **Dan Downey's** greenhouse plants will be held at our Show and Sale for the benefit of his family.

● The Massachusetts Cactus and Succulent Society may be making a June bus trip to the **Coastal Maine Botanical Garden** in Boothbay Harbor the weekend of June 14-15, and invite us to join them. We will get more information later. ○



Photos by Herbert (Sully) Sullivan

The Book Shelf

By David Schultz

THE ANNUAL TIMBER PRESS/STOREY Books group order will be placed on the Monday following the March meeting. All orders must be received by then to be included in the order.

● I will have Spring 2013 catalogs for both publishers at the meeting. If you are unable to make it to the meeting, but wish to be included, you can check out the catalogs on their websites www.timberpress.com and www.storeybooks.com. You can reach me, **David Schultz**, at (860) 489-8356, if you miss the meeting.

● The books can be ordered at 40% discount from list prices. Checks should be made out to the CCSS. ○

Photos at Left

Top: *Paul Carlson describes a plant before passing it among the membership.*

Bottom: *Paul responds to a question from Helen Pritchard.*

Dan Downey's Books

By David Schultz

ART SCARPA HAS DELIVERED **DAN Downey's** book collection to me. Since receiving them, I have worked up a list of the collection which includes 70 succulent books, 12 carnivorous books, 12 bonsai books, and a group of antiquarian books dating from about 1860. General gardening books are also included.

● We will be selling the books giving the proceeds to Laurie, Dan's widow. The complete list will be in the April newsletter and the books will be available at our April Show and Sale. The list will also be afforded the Cactus and Succulent Society of Massachusetts. ○

Connecticut Cactus and Succulent Society

30th Annual Show and Sale

2013



SATURDAY, APRIL 6 & **SUNDAY, APRIL 7**
 10:00 AM – 5:00 PM 10:00 AM – 4:00 PM

NAUGATUCK VALLEY COMMUNITY COLLEGE
ART & MUSIC CENTER CAFETERIA, FIFTH FLOOR
750 CHASE PARKWAY, WATERBURY CT (Exit 1B off I-84)

➤ FREE ADMISSION TO SHOW & SALE ◀

Judged Show * Auction* Leading C&S Vendors! Book Sales!

FREE PLANT TO FIRST 50 FAMILIES EACH DAY!

FREE LECTURES & DEMONSTRATIONS

SATURDAY		SUNDAY	
11:30 PM	Rely on Sun Power Alone	11:30 PM	Turbinecaryas
12:30 PM	Auction	12:30 PM	Auction
1:15 PM	Succulent Bonsai	1:15 PM	Hardy Cacti for the CT Garden
2:15 PM	Cacti & Succulents 101	2:00 PM	Living Stones
2:45 PM	Auction	2:45 PM	Auction
3:30 PM	South African Succulents of the Hammer Collection	3:00PM	The Tall and Short: Cacti of Oaxaca

Each lecture lasts approximately 20 minutes. Programs subject to change. For more information, visit www.ctcactusclub.com, or call 860-489-8356.

Connecticut Cactus and
Succulent Society

*2013 Plant Show
Entry Form*

Division _____ Class _____

Genus _____

Species _____

Var., Fma., and/or Cv. _____

Seed-raised _____ Windowsill-grown _____

Plant's age, if known, or years owned _____

Exhibitor's Comments _____

Award: 1st _____ 2nd _____ 3rd _____ HM _____

Judges' Comments: _____



Fold Under



Exhibitor's Name _____

Connecticut Cactus and
Succulent Society

*2013 Plant Show
Entry Form*

Division _____ Class _____

Genus _____

Species _____

Var., Fma., and/or Cv. _____

Seed-raised _____ Windowsill-grown _____

Plant's age, if known, or years owned _____

Exhibitor's Comments _____

Award: 1st _____ 2nd _____ 3rd _____ HM _____

Judges' Comments: _____



Fold Under



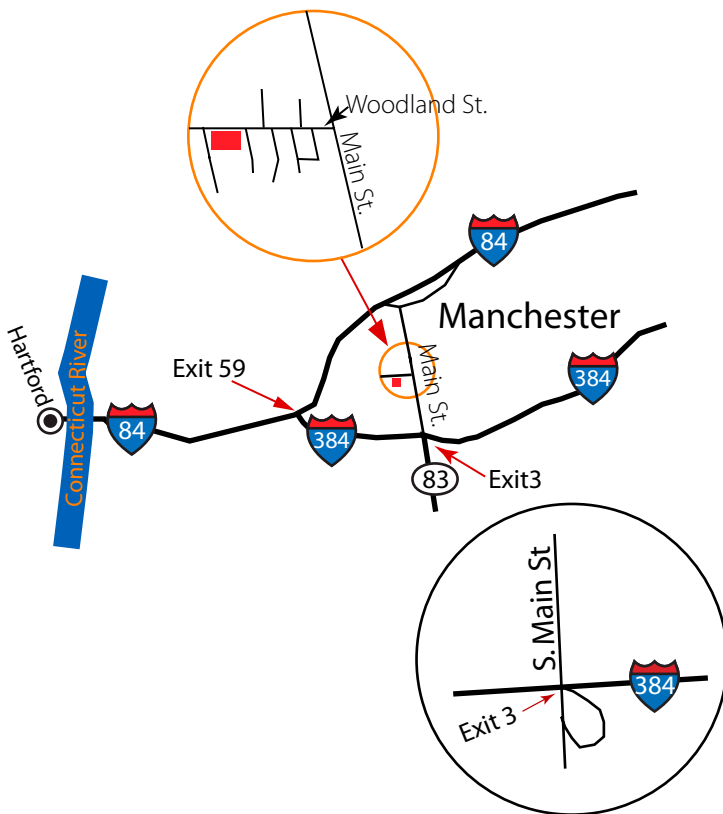
Exhibitor's Name _____

Your entry forms are on the reverse side of this page.
Cut out the forms to use. Xerox more forms if you need
them.

Map and Directions to Woodland Gardens

- From Hartford stay on I-84 for five miles taking right Exit 59 merging onto I-384 east toward Providence.
- In about four miles, take Exit 3 onto Route 83/Main Street. See encircled exit-map below.
- Proceed into Manchester on Main Street for about two miles. Woodland Street will be on the left.
- Proceed onto Woodland Street. In just a few blocks you will see Woodland Gardens on the left. Refer to map below.

■ = Woodland Gardens
168 Woodland Street



Synopsis Vol. 85 CSSA Journal

By Tim Harvey, Editor, CSSA Journal

VOLUME 85 OF THE JOURNAL OF THE CACTUS and Succulent Society of America was mailed out to the membership in late January. The volume begins with an account of exploration in Mexico by **Julia Etter** and **Martin Kristen**. So far, two new species (an *Echeveria* and a *Sedum*) have been described as a result of their work, named in honor of the authors in the recently-published *Haseltonia* 18.



- Here they tell us more about the extremely challenging terrain around the Rio Piaxtla as well as other plants seen in the area, several of which still await better understanding.
- Socotra is once again difficult to travel to, after a short period when tourists could visit relatively freely. Despite the current difficulties, the intrepid **Alain Rzepecky** managed to find a new arborescent *Euphorbia* species, described here and accompanied by spectacular habitat images.
- The second new species described in this issue is a member of the genus *Eriospermum* from near the Orange River area in Southern Africa. **Graham Williamson** provides some beautiful drawings to illustrate the finer points of this plant.
- *Euphorbia schoenlandii* and a **Kelly Griffin** hybrid *Aloe* 'Red Ridge' feature in **Duke Benadom's** Superb Succulents article.
- **Jeff Chemnick** provides an in-depth guide to the cycad genus *Dioon* as it occurs in Oaxaca, in an article held over from the Special Edition on the CSSA tour to that state, which came out in 2012.
- Finally, **Elton Roberts'** article on the genus *Micropuntia* is sure to be the first encounter for many with this fascinating group of plants, and again he provides an alternative and informed view of current taxonomy.



The Connecticut Cactus and
Succulent Society's
30th Annual Show & Sale
April 6–7, 2013

Plant Show Categories

Division 1—Cacti

Cactaceae

1. Astrophytum
2. Ariocarpus
3. Obregonia, Encephalocarpus, Aztekium
4. Echinocereus, Wilcoxia
5. Ferocactus, Homalocephala
6. Stenocactus (Echinofossulocactus)
7. Echinocactus, Leuchtenbergia
8. Coryphantha, Thelocactus
9. Turbinicarpus, Strombocactus
10. Pediocactus, Pelecyphora, Sclerocactus, Epithelantha
11. Neolloydia, Echinomastus, Gymnocactus, Escobaria
12. Mammillaria—single head
13. Mammillaria—hook-spined, clusters
14. Mammillaria—clusters
15. Melocactus
16. Discocactus
17. Uebelmannia, Buiningia
18. Columnar Cacti—Carnegiea, Cephalocereus, Cleistocactus, Espostoa, Myrtillocactus, Neobuxbaumia, Pilosocereus, Stetsonia, Stenocereus, Trichocereus, etc.
19. Opuntiae—Opuntia, Tephrocactus, Pterocactus
20. Parodia Group, including Notocactus
21. Rebutia, Aylosteria, Medioblobia
22. Sulcorebutia, Weingartia
23. Lobivia, Denmoza, Echinopsis, Acanthocalycium
24. Matucana, Submatucana, Oroya
25. Eriosyce Group, including Neoporteria, Neochilenia, Horridocactus
26. Copiapoa
27. Frailea, Blossfeldia
28. Epiphytic cacti—Disocactus, Epiphyllum, Hattoria, Rhipsalis, Selenicereus, etc.
29. Gymnocalycium
30. Other genera of cacti
31. Variegated cacti

32. Crested cacti
33. Monstrose cacti
34. Winter hardy cacti

Division II—Succulents Other than Cacti

Crassulaceae

35. Crassula
36. Adromischus
37. Aeonium, Sempervivum, Orostachys, Greenovia, Aichryson
38. Cotyledon, Tylecodon, Kalanchoe
39. Echeveria
40. Pachyphytum, Graptopetalum, Tacitus
41. Dudleya
42. Sedum
43. Other genera of Crassulaceae—Monanthes, Sinocrassula, etc.

Mesembryanthemaceae

Aizoaceae

44. Lithops, Dinteranthus
45. Stone Mimics: Argyroderma, Fenestraria, Gibbaeum, Lapidaria, Pleiospilos, etc.
46. Conophytum
47. Other mesembs:
 - a. Shrubby types—Ruschia, Delosperma, etc.
 - b. Rough/tooth-leaved types—Aloinopsis, Titanopsis, Faucaria, etc.
 - c. Others—Monilaria, Cheiridopsis, Mitrophyllum, Glottiphyllum, etc.

Euphorbiaceae

Euphorbia species endemic to Madagascar

48. Millii type—beharensis, delphinensis, duranii, horombensis, millii, etc.
49. Stem type—leuconeura, lophogona, pachypodioides, perrieri, stenoclada, viguieri, etc.
50. Thickened root or caudex type—decaryi, capsaintmariensis, francoisii, cylindrifolia, etc.

Euphorbia species NOT endemic to Madagascar

51. Medusae-head type—caput-medusae, gorgonis, decepta, esculenta, pugniformis, flanaganii etc.
52. Caudiciform type—stellata, micrantha, tortirama, squarrosa, knuthii, groenwaldii, tuberosa, etc.
53. Stem type (solitary or clustering)—polygona, fasciculata, obesa, suzannae, mammillaris, abdelkuri, columnaris, stellispina, etc.

54. Shrub type—cooperi, cactus, grandicornis, pseudocactus, poisonii, weberbaueri, etc.

Other Genera of Euphorbiaceae

55. Monadenium, Synadenium
56. Pedilanthus, Jatropha, etc.

Aloaceae

57. Aloe
58. Haworthia—single plant
59. Haworthia—clumps of plants
60. Haworthia—columnar
61. Haworthia—hybrids
62. Gasteria
63. Other Genera of Aloaceae

Asclepiadaceae

64. Stapelia, Orbea, Caralluma, Huernia, Stapelianthus, Piaranthus, Echidnopsis, etc.
65. Hoodia, Trichocaulon, Pseudolithos, Whitesloanea
66. Fockea, Brachystelma, Raphionacme, Petopentia
67. Other Asclepiadaceae genera—Hoya, Ceropegia, Dischidia, etc.

Asphodelaceae

68. Bulbine

Hyacinthaceae

69. Albuca, Bowiea, Massonia, etc.

Agavaceae

70. Agave
71. Furcraea, Hesperaloe, Yucca, etc.

Nolinaceae

72. Beaucarnea
73. Calibanus
74. Other genera of Nolinaceae—Nolina, Dasylirion

Dracaenaceae

75. Sansevieria, Dracaena

Apocynaceae

76. Pachypodium
77. Adenium

Bromeliaceae

78. Abromeitiella, Deuterocohnia, Dyckia, Hechtia, Tillandsia, etc.

Asteraceae

79. Senecio, Othonna, etc.

Convolvulaceae

80. Ipomoea, Turbinia

Cucurbitaceae

81. Ibervillea, Kedrostis, Gerrardanthus, etc.

Dioscoreaceae

82. Dioscorea, Testudinaria

Didiereaceae

83. Alluaudia, Didierea, Decaryuia, etc.

Fouquieriaceae

84. Fouquieria, Idria

Geraniaceae

85. Sarcocaulon, Pelargonium

Passifloraceae

86. Adenia

Portulacaceae

87. Anacampseros, Portulacaria, Portulaca, Ceraria, etc.

Vitaceae

88. Cissus, Cyphostemma

Miscellanea

89. Succulent shrubs and trees not in other categories—Bursera, Operculicarya, Pachycormus, Ficus, Bombax, Commiphora, etc.
90. Herbaceous succulents not in other classes—Begonia, Peperomia, Brighamia, Myrmecodia, Plectranthus, Dorstenia, Hydrophytum, Gonolobus, etc.
91. All other genera of succulents
92. Variegated
93. Crested
94. Monstrose
95. Winter-hardy Succulents

Division III—Special Exhibits

96. Bonsai
97. Collections—5 to 15 plants of one genus or common characteristic (All plants must be properly named/numbered. Key card is required.)
98. Miniature—a mature plant—inside pot diameter less than 3 inches
99. Dish Gardens or Troughs (All plants must be properly named/numbered. Key card is required.)

Division IV—Novice and Junior Growers

(NOVICE: a first-time exhibitor; JUNIOR: an exhibitor of high school age or younger)

100. Cacti—Novice
101. Cacti—Junior
102. Succulents other than cacti—Novice
103. Succulents other than cacti—Junior
104. Dish gardens or troughs—Novice

105. Dish gardens or troughs—Junior
 106. Group exhibit by school, class, or other organization—Junior

Division V—Educational Display

107. Displays of a particular genus, family, or group of plants sharing a specifically defined character(s), and/or horticultural technique, which educate the general public. Eligible of the **Cactus and Succulent Society of America Educational Award**

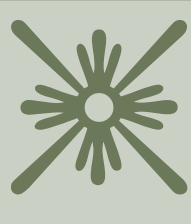
Division NJ—Non-judged Classes

Plants entered for display only.

- A plant entered in this division is for display only and is **not to be judged**.
- The class numbers in this division correspond to the class in which the plant would be entered in the judged show, but with the addition of NJ to the class number.
- The plant may be allowed entrance and/or removal from the show—**with the prior consent of the show chair**—at times the entrant deems necessary.
- The plant must have a valid entry form and be passed by the show committee.

Annual Show Rules

1. No field collected plants permitted
2. Plants must be placed on the show benches by 9:00 AM, Saturday, April 6. No plants will be accepted for judging after that time.
3. The Connecticut Cactus and Succulent Society reserves the right to reject any plants which appear infected or infested.
4. All plants must have been in the owner's possession for six (6) months prior to the show.
5. Exhibitors must completely fill out entry forms, [page 10] placing them with the appropriate plants, and in such a manner that the exhibitor's name does not show. Windowsill grown plants should be clearly marked as such.
6. Exhibitors are asked not to be in the show area during judging. A judge having a plant in any class is expected to not judge in that class.
7. A novice is a first-time exhibitor. A junior is a person of high school age or younger.



We need your plants in our Thirtieth Annual Show and Sale. You are a member. We **NEED** your participation. It is important.

Show Time 2013

By David Schultz

THE SHOW, AS WELL AS SPRING, IS fast approaching. We have had a number of volunteers for various tasks. The society will plan to again have our club sales table.

- I have placed an order for pumice (*Dry Stall*) and will have bags for the table as well as for our soil mix. We will need help making and transporting the soil to the show. Also, we do not have enough volunteers to take care of the club table sales as well as to man the sales table. Who would like to take "charge" of the club sales table?

- Since the society has decided not to offer the free snacks with donation cup, we will not have to cover that area. But the society greeting table with sign in sheets, membership forms and free plants will require volunteers.
- The show plants need to arrive on Friday afternoon/evening for the judged show. The more variety and number of plants we can enter in the show, the better the display and public reaction. Remember, we are an educational society and want to give the public a show of our enthusiasm and interest in our plants. We have categories for those who have never entered. [See Annual Show Rule #7, above.] Do not feel intimidated, since we all started at some point.



Paul Carlberg refers to his notes as he discusses Haworthias in general and, specifically, the fifty exemplary plants in his specimen display. He was the featured speaker at our February meeting.

Photo by Herbert (Sully) Sullivan