

Newsletter

ISSN 0160-9521

CALENDAR OF EVENTS

This Newsletter should be in the bulk mail facility at Merrifield Post Office, Merrifield, VA on or about 30 Sept, 1991. The reasons for mentioning this are twofold.

First, publishing the Newsletter has fallen behind and the editor is determined to try and close the gap and catch up with getting the Newsletters in the mail in the month prior to the month on the first page.

Second, some recipients of the Newsletter receive the Newsletter after what seems to be a woefully inordinate amount of time. The Newsletter is posted using bulk mail which, at this time means it goes to the Merrifield, Northern Virginia Bulk Mailing Center. The bags containing the Newsletters are labeled as follows:- one bag with ZIP codes 220 through 223 stays at the postoffice for Northern Virginia (obviously these should get to the addressees the fastest); one bag goes a distribution center in southern Maryland - ZIP codes 206 through 209 (this is a recent change where previously all the mail for Maryland went to Baltimore); one bag for ZIP codes 210 through 219 (the rest of the Maryland mail) goes to Baltimore; one bag of mail for Washington, DC, now goes directly to the bulk mail facility in the District where it previously went to Richmond from Merrifield; and the last and fifth bag contains all other ZIP codes and goes to Richmond, VA.

In order to circumvent any delay in receiving information

PBA NEWSLETTER Published by the Potomac Bonsai Association, Inc. (PBA), a non-profit organization, in the interests of its affiliate member clubs and societies.

SUBSCRIPTIONS PBA Member Clubs/Societies: Annual subscription is included in the membership dues paid to the PBA Club or Society of your choice. Telephone numbers of points of contact for information about any member club or society and its annual dues, are listed under the "Calendar of Events" section of this Newsletter.

Subscribers: Annual subscription for 12 issues of the PBA Newsletter is \$15.00 which should be made payable to the "Potomac Bonsai Association" and sent to Cy M111, 10300 Bushman Drive, #1111, Oakton, VA 22124

ADVERTISING RATES Monthly rates: 1/4 page - \$6.00; 1/2 page - \$12.00; full-page - \$19.00 20% rate reduction for advertisements that run 3 or more months.

ADVERTISEMENTS and/or ARTICLES Please send to the editor.

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POTOMAC BONSAI ASSOCIATION, INC.
% U.S. NATIONAL ARBORETUM
3501 NEW YORK AVE. NE
WASHINGTON, D.C. 20002

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U.S. POSTAGE PAID
MERRIFIELD, VA
PERMIT NO. 659

**TIME
CRITICAL
INFO**

Jules & Jane Koetsch
6709 Caneel Court,
Springfield, VA 22152

by the readers relative to scheduled events, the listings of events are keyed with the anticipated deliveries of the Newsletter rather than the date on the masthead. At this time, this seems to be a more viable approach in contrast to the suggestion that the Newsletter be mailed as First Class Mail to insure that the time for delivery would be reduced. The Editor bases this conclusion that it presently costs \$0.124 12.4 cents to mail an issue of the Newsletter (irrespective of the size or weight) by Bulk Mail whereas a 24 page edition would cost 52 cents to mail each Newsletter via First Class Mail. Against the last bulk mailing of the Newsletter of 486 issues at 12.4 cents each or a total of \$60.27, first class mail would cost \$252.72. In the words of our President, George Bush, it does not seem prudent to change to mailing first class. If any readers have any contrary thoughts on the matter, please let either your club/society officers or the editor of this blurb know about your concerns

The Editor

PBA CALENDAR OF EVENTS

October 5 - Delaware Valley Bonsai Group
"Group display at National Arboretum"

October 8 Chesapeake Bonsai Society
"Beginning Workshop - Quince"
Stephen Choi, 7-9 PM, Public Library, Annapolis
for information call Steve Choi, 301/266-7336 or
202/261-8131

8 October Tuesday

U.S. NATIONAL ARBORETUM : TROPICAL BONSAI PLACED
IN WINTER STORAGE.

Above date can be used as a guide for readers to consider placing tropical and sub-tropical bonsai under cover so that the cold nights and impending winter temperatures will not kill the bonsai.

9 October U.S. National Arboretum
"Refinement Workshop"
Dan Chiplis, 6:30 - 8:30 PM, in Yuji Yoshimura Center. Bring your own bonsai, tools and equipment. Attendees must have taken beginners classes or worked with bonsai for two years. Limited to ten persons. Charge: \$10.00 for FONA members, and \$12.00 for others. Make your check payable to Friends of the National Arboretum. The workshop is held under the auspices of FONA and the National Arboretum.

October 12 No.Va.Bonsai Society
"Members Collections Tour"
Bill Orsinger & Bill Daly; 5161 No.37th St.
Arlington, 703/536-6509
Jules Koetsch; 6709 Caneel Ct. Springfield
703/569-9378

October 12 & 13 Baltimore Bonsai Club
"Fall Show"
10AM-4 PM, Cylburn Arboretum, Baltimore
for information call Mike Ramina, 301/668-1868

October 13 Brookside Bonsai Society
"Fall Show"
10AM-4PM, Brookside Gardens (1500 Glenallen Ave.) Wheaton
for information call Janet Lanman, 301/365-7621

13 October Sunday

U.S.. NATIONAL ARBORETUM (202) 475-4815. 1:30 p.m. in the Yuji Yoshimura Bonsai Center. FREE! Each attendee gets one free ticket for the raffle of the demonstration tree. PUBLIC BONSAI DEMONSTRATION by a member of the Delaware Valley Bonsai Study Group.

October 26 Kiyomizu Bonsai Club
"Bald Cypress"
Dan Chipless at Chuck Bird's home 2PM
for information call Godfrey Trammel, 301/645-3519

26 October Saturday

WOLF TRAP NURSERY (703) 759-4244. 9:00 to 10:30 a.m.
OUTDOOR BONSAI WORKSHOP - CREATE YOUR OWN BONSAI.
Call for more information.

27 October Sunday
U.S. NATIONAL ARBORETUM (202) 475-4815. 1:30 p.m.
in the Yuji Yoshimura Bonsai Center. FREE!
PUBLIC BONSAI DEMONSTRATION. Each attendee gets
one free ticket.

October 27 Mei-Hwa Penjing Society
"Juniper Literati"
Chris Yeapanis at Benjamin Banneker School
at 2 to 4 PM. Call 301/390 6687 for info.

October 28 Bowie Bonsai Club
"Collecting Trip"
for information call Terry Adkins, 301/350-3586

November 2 U.S. National Arboretum
"Stone Appreciation & Placement in Bonsai
and the Landscape"
1:00 PM Yuji Yoshimura, distinguished bonsai
master & author of "The Japanese Art of
Miniature Trees and Landscapes" and: The Art
of Stone Appreciation" Lecture. Admin Bldg.
Aud. Free. More info?- 202/475-4857.

November 2 - Kiyomizu Bonsai Club
10 "Club Display at National Arboretum"

November 9 No.Va.Bonsai Society
program to be announced
10AM, Stephen Choi, Green Spring Hort.Cent.
(Green Spring Rd off W.Little River Turnpike -
at Salvation Army Store)
for information call Russ Kinerson, 703/765-7223

November 10 U.S. National Arboretum
"Public Bonsai Demonstration" Free
1:30 PM in Yuji Yoshimura Center. Each
attendee gets one free ticket for the raffle
of the demonstration tree.

November 11 Kiyomizu Bonsai Club
Demonstration, National Arboretum
1:30PM, Chuck Bird

November 13 U.S. National Arboretum
"Refinement Workshop"
See 9 October entry for details.

November 15
U.S. National Arboretum
HARDY BONSAI PLACED IN WINTER STORAGE at the
Arboretum

Readers should use the above date as a guide
for winterizing their hardy bonsai

November 16 Washington Bonsai Club
"Indoor Bonsai Workshop - Meehan's Minatures"
Martha Meehan, 2PM, National Arboretum, Main Bldg.
for information call Vern Frey, 202/296-2441

November 21 Brookside Bonsai Society
"Growing Boansai in an Apartment"
David Garvin, 7:30 PM, No.Chevy Chase Recreation
Center (off Jones Bridge Rd) Chevy Chase
for information call Janet Lanman, 301/365-7621

November 24 Baltimore Bonsai Club
"Beginning Workshop"
1-2PM, Loch Raven Library followed by
"Making Pots - Part II" (See Oct. 20)
for information call Mike Ramina, 301/668-1868

November? Chesapeake Bonsai Society
"Collecting Trip"
for information call Steve Choi, 301/266-7336 or
202/261-8131

December 10 Chesapeake Bonsai Society
"Kingsville Boxwood on the Rocks"
Bill Merritt, 7-9PM, Public Library, Annapolis
for information call Steve Choi, 301/266-7336 or
202/261-8131

December 8 Kiyomizu Bonsai Club
Christmas Pot Luck Dinner
call for information

- December 14 No.Va.Bonsai Society
Annual Holiday Party
call for information
- December 19 Brookside Bonsai Society
Holiday Party, Good Fortune Chinese Restaurant
call for information
- December? Baltimore Bonsai Club
Holiday Event
call for information
- January 18 Washington Bonsai Club
"Getting Ready for Spring"
Bill Merritt, 2PM, National Arboretum, Main Bldg.

For additional information, one can telephone the member clubs/societies:

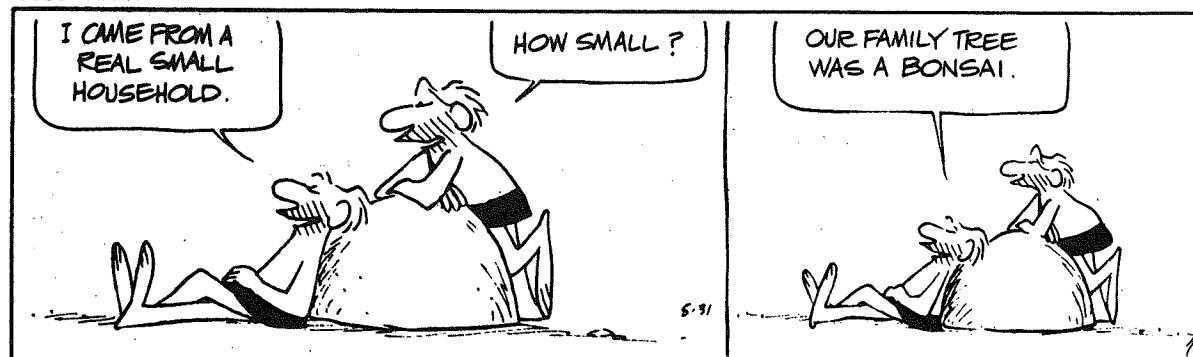
Baltimore: (301) 825-0863; Bowie (301) 350-3586;
Brookside: (301) 365-7621; Chesapeake:(301) 668-1868 or
(202)261-8131; Kiyomizu: (301) 423-8230; Mei-Hwa Penjing:
(301)350-3586; NOVA: (703) 765-7223; Washington: (202)
296-2441.

The above Calendar of Events was, for the most part, compiled by Judy Wise. Please forgive the off-size inserts.- hopefully these can be corrected in the future to give a neater copy. If you have any information for the Calendar of Events please contact Judy Wise, 1259 4th Street, S.W., Washington, DC.20024; Tel- (202) 554-3045.

Many thanks to Judy for helping with the Calendar of Events.

The Editor

B.C. HART



Confessions of a Bonsai Addict

by
Russell Kinerson

It all started innocently enough. There was no clue that bright, sunny morning that I might be exposing myself to something that would become a lifelong addiction. No clue that over the next few years I would spend hundreds of dollars on this newly discovered pleasure.

My wife and I were walking through the National Arboretum. It was spring and the azaleas were in bloom. We spent hours in the quite serenity of the forests and ate our lunch sitting on a wooden bench beside some old, but still sound, stone walls. And then we walked through the Japanese Pavilion. Suddenly I was no longer looking up at branches with newly unfolding leaves that towered over my head. Now I was towering over the trees. The newly unfolding leaves were before my very eyes and I had to bend over and lean forward to see them even better. I had never seen bonsai before; didn't even know that this marvelous, living art form existed. When I got my breath back I asked if Santa Claus would bring me a book on bonsai for Christmas.

That was nearly a decade ago. Not long in the life of a bonsai. Not long in comparison to the length of time many of my friends have been involved with bonsai. And certainly not long in comparison to the history of bonsai which dates back to before the seventh century A.D.

For the next few years I experimented with bonsai on my own. I read books and tried to copy some of the examples using plant material collected from my back yard or

from a nursery. I learned quite a bit and some of my trees looked pretty good. Well, let's be honest, they looked pretty good to me. Actually, they were pretty bad!

One spring a few years later, my wife and I were again at the Arboretum. We went in response to a notice in the Washington Post that the Potomac Bonsai Association was putting on a bonsai show there. They called it their Spring Show. By now I knew enough about bonsai to realize that there were some nice trees here. I was impressed with the accomplishments of other people just like me. As I was leaving I commented how much I enjoyed the show. The next thing I knew I was a member of the Northern Virginia Bonsai Society and, incidently, PBA.

I learned more in the next year with the club than I had learned on my own over the previous years. My prior reading of the bonsai books helped; it is necessary to have a good foundation in styles and in care. But there is no substitute for hands-on experience when it comes to styling your own trees. The lectures, workshops, demonstrations, symposia, etc. all are so packed with information and the club members are so enthusiastic, knowledgeable, and willing to help a novice.

As beautiful as bonsai are, and as much enjoyment as one can receive just from looking from them, the real thrill of bonsai starts when your involvement with it stops being a spectator sport. In most of the workshops, the luck of the draw determines the quality and potential of the tree you have to work with. The general consensus in bonsai is that the roots are the most important part of the tree. You can always grow new branches or move them into appropriate positions in the crown, but good rootage is most important. Let me tell you about a tree that didn't have good roots.

We were doing a workshop with Bill Merritt, and the material was Kingsville boxwood. The trees were about 20 years old, field grown, and special. (I was late

getting back from lunch and most of the trees had been selected. It wasn't that others had an unfair advantage, someone always gets to pull the last slip of paper from the hat.) However, as luck would have it, the tree that came with that last slip of paper had the ugliest rootage that I have ever seen. There were three heavy stilt roots; one came straight forward nearly four inches before turning down into the soil, the other two went to the back and crossed on their way down. The top of the tree was lovely, and I concentrated on learning how to style the Kingsville boxwood so that it looked like a miniature old tree instead of a little green ball. When I left that afternoon, I still didn't know what I was going to do about the ugly roots.

An idea was to come to me from something I had seen at an earlier PBA event. The theme of the 1987 PBA Symposium was "Bonsai on the Rocks". At that symposium, Bill Merritt had presented a lecture and demonstration entitled "Rabbit Stew". The idea went back to that old recipe for rabbit stew that began with "First you catch a rabbit". If the parallel must be made ... if you are going to do a rock planting, first you need a rock. Bill then proceeded to demonstrate the art of rock carving using feather rock, a volcanic glass readily available from most rock shops or quarries.

I had taken copious notes and made many sketches as Bill did his presentations. Looking them over, with my boxwood in mind, I decided that this might be the way to turn this ugly duckling into a beautiful swan. I needed to carve the rock to accept the heavy, stilted root system.

It takes some time to carve a rock, even one of such soft texture as feather rock, and I didn't want to damage or dry the roots as I kept checking their fit over the rock. I forced modeling clay between the roots and the soil to make a female mold of the three large roots. Next I used caulking compound to make the male mold. A firmer material, such as dental casting wax, would have been better but the caulk worked. Then with a

hammer, cold chisels, old saw, and electric drill I shaped the cube of feather rock into an attractive shape.

A saddle was carved into the top that was a perfect fit for the heavy roots. A layer of muck was spread over much of the rock and the tree was set in place. (I use equal proportions of clay subsoil from my garden and mulled sphagnum peat, kneaded together until it reaches a smooth, plastic consistency). The fit was so good that I didn't even have to secure the tree to the rock with wires. The fine roots spread down over the sides and I covered them with more muck which I then covered with a layer of moss. The primary and the secondary peaks of the mountain and several areas along the sides were left exposed. The texture and grain of the rock dictated where the ridges and gullies would go; the forces of erosion (hammer and chisel) were more effective on the softer areas.

It has been three years since this tree was styled. The roots now grow all the way down over the sides of the rock and in the gravel underneath it. This spring, I root pruned by picking the rock up with one hand and clipping off the long roots with the other. The landscaping of my mountain changes as blue jays pull moss off the rock either looking for insects to use in their nests. Different species of moss were used for variety, and a competition naturally takes place between them. Some miniature mushrooms emerge each year. I didn't plant them, I'm just lucky.

The same tripartite arrangement that works so well with the placement of trees is essential to the proper display of this rock planting. Two smaller stones set some distance away from the base of the rock cliff provide the aesthetic balance.

There is a message in here somewhere. It has something to do with the generosity of so many people who have been, and continue to be, active in the Potomac

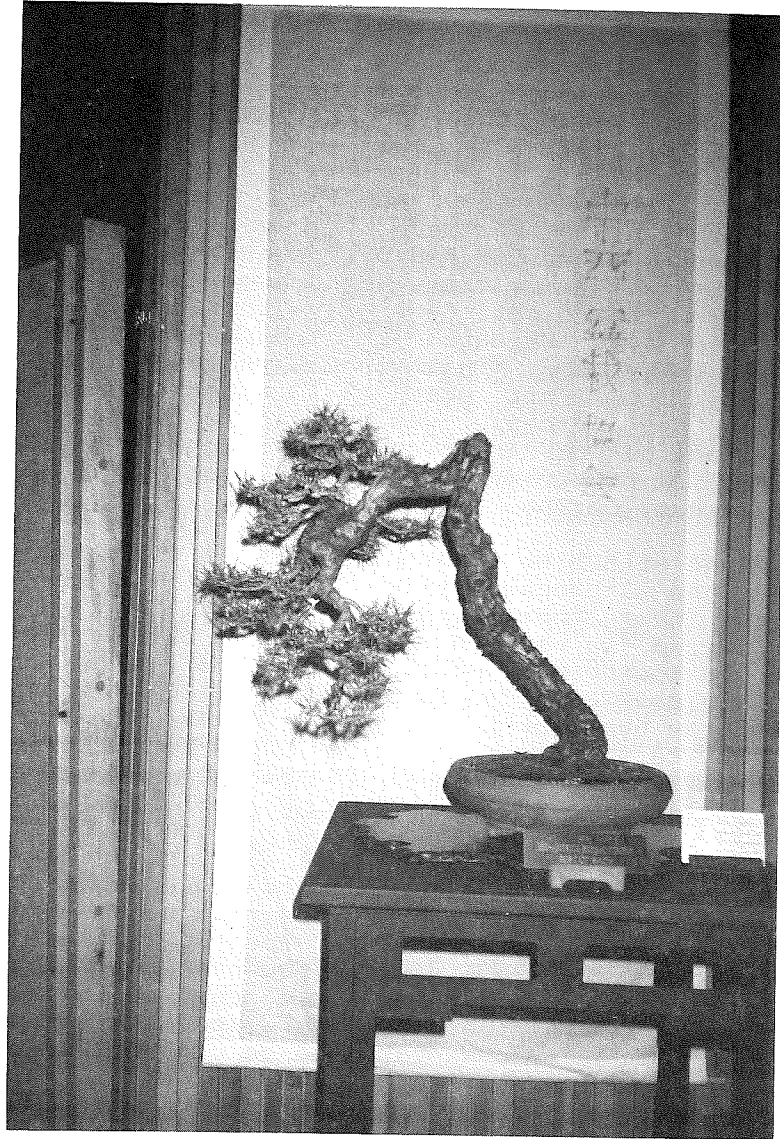
(Concluded on page 15)

TERRY N. ADKINS
President
Bowie Bonsai Club

14th ANNUAL MIDWEST BONSAI SOCIETY EXHIBITION
AUGUST 16-18, 1991

It was 4:21AM Thursday morning, when my thirteen hour journey began to Northern Chicago. Two of my own bonsai trees went with me for exhibition at the 14th annual Midwest Bonsai Society Exhibition. The trees needed to be checked in by 8:00PM that night. Generally, traffic went well, until I hit inner city Chicago. It looked as if every street was undergoing repairs. Chicago is three times the size of Washington, DC, but only half as confusing. Being new in town, a map purchase was a definite necessity. Of course, the Botanical Gardens was located outside of the map area, however, prior to my arrival I had received directions from the chairman, Carlos Martinez.

I arrived at 5PM to see the wonders of the beautiful grounds within the Japanese garden. The main attraction was the bonsai. These trees had been viewed by millions, some photographed in well known magazines. I knew the competition would be tough. Many professionals had entered trees of high quality. As I looked over at Jack Wilke carting some trees across the huge lobby, suddenly one small trident maple fell off the cart. The owner, Jack Fried, kept his distance even though his face shown with disappointment at the broken pot and partially broken branch. This mishap occurred fortunately after the judging took place on Friday. Later in the day, I spoke with Mr. Fried, (President of the Midwest Bonsai Society and owner of the broken bonsai) to discuss the earlier incident. He stated that he had been fortunate over the years with only one accent plant stolen. However, this day started out with a broken accent plant and then a partially broken branch on a tree that he invested eight or nine years in training. This was a special tree since Susumu Nakamura, a Japanese Master, had helped in its' training for the past two years. Each year Mr. Nakamura works with a special study group for one month. With expenses paid by the group, he in turn spends at least one day with each member's trees. Jack Fried said he had about 75 trees.



"BEST of SHOW"
by Ivan Watters
Black pine.



Scots Pine by Keith Scott
Note: It is not Scotch pine.
Scotch only applies to the
whiskey, - see Peter Adams
books.

The vendors at the exhibit seemed to have practically everything. Prices were varied as well. I interviewed John Palmer, Editor and Publisher of "Bonsai Today". Mr. Palmer stated that he had been growing bonsai for over twenty years. He received an opportunity three years ago to publish a magazine with articles from "Contemporary Bonsai" in Kyoto, Japan. At that time, John was employed as an engineer designing safety valves for nuclear plants. Now, he strictly publishes the magazine which is gaining popularity and world recognition. Recently, John has published articles by Americans in the Japanese magazine. Future issues will be kept on the same lines as it has been over the last two years, but John has some upcoming surprises.

Getting back to the exhibit.....A Japanese Black Pine won BEST OF SHOW, owned by Ivan Watters. I enjoyed the competition and walked away with second and third place for my trees. There were five divisions: conifers, deciduous, broadleaf evergreens, tropical and forest. Several second and third places were given for each division, but all were not takers. It sure felt good to receive a ribbon. Judging the exhibit were Sharon Muth and Keith Scott. Most decisions were well accepted. Sharon even gave me pointers to improve my Ponderosa Pine.

The Chicago Botanical Gardens has a beautiful collection of bonsai, however, no place to properly display them, except for the exhibit. Keith Scott had turned over a Scott Pine to the Botanical Gardens which he had collected in 1963 from a cow pasture. Keith Scott has been hired as curator for the Pittsburgh Bonsai Collection, yet to be built.

On a final note, I would recommend a trip next year to the Annual Midwest Society Exhibition to all bonsai fanatics, young and old. It was one convention that I will always remember.

(Continued from page 10)

Bonsai Association. With their help, I have created a beautiful bonsai. I would never have done it on my own. Each year literally scores of new members join the PBA member clubs. To each of these new members, and to all of you who have joined in years past, I encourage you to avail yourselves of the club and PBA functions and of the tremendous pool of knowledge and expertise that is available to each of us.



FRED MIES

TRAVELER EXTRAORDINAIRE

Fred Mies is a past president of PBA and an active member of the Brookside Club. His job involves frequent trips to foreign lands such as England, France, Israel, Japan, etcetera, etcetera. In last perusing the jumble of items for possible inclusion in the PBA Newsletter, I (the editor) ran across a number of pages that were copied from a Japanese book describing the Japanese National Customs Exhibition in Tokyo, Japan. Imbedded in the Japanese was a writeup about Fred. In talking with Fred just a few days ago, it developed that he couldn't remember whether it was last year or the year before when he was there. The Japanese compute their years starting with when the an emperor begins his reign. This is always slightly confusing to a geijin like me, but if I properly interpret the date it was two years ago. Since Fred is about to repeat that journey, it's time that I keep my promise and translate the part he gave me.

It may be of interest to see how the part about Fred fit into the context of the section of the book. There were large captions separating groups of paragraphs. The writeup on Fred was between two paragraphs which will also be translated below to indicate what company he fit between. He was not important enough to rate a large caption such as that which leads off the translation:

HEAD OF LUFTHANSA - Occasion of Visit

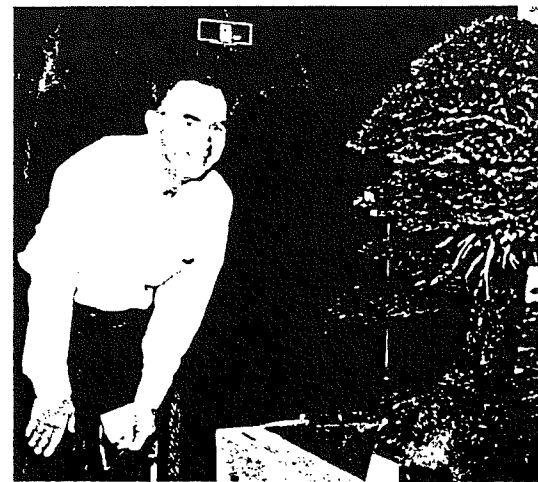
An unusual visitor: Ian Shultz, head of the West Germany Lufthansa airlines (age 48 *) shared a popular interest in studying and collecting Ume (Japanese apricot) which were in full bloom at that time (February). Mr. Schultz has been a pilot for 24 years and noted that for about two times each month Frankfurt Airport turns

* Japanese have no compunctions about letting their ages be known, - sort of indicative of the older one is, the wiser they are are supposed to be. Fred's age was not mentioned.)

into a rice paddy - otherwise the flying conditions are favorable. He likes big bonsai. Lately he has expanded his studies and observations to include the literati style which style he noted has increased in the exhibition to double what it was previously.

"I arrived in time to go to the Bonsai Village in Omiya. I am fond of Ume and Buna (Japanese beech). At Omiya, I had the problem of what pot to choose and take back to West Germany, because I am concerned about the size of the pot being sufficient to protect the bonsai from the extreme cold in the midwinter season. There is also the case of getting the Ume to set blossoms and bloom." At present, he is studying in a Japanese language school so that he can become intimate with the Japanese language.

Frederick Mies also put in an appearance. Mies is a chemist. He arrived in Japan at the invitation of the Japanese Civil Affairs Department with the arrival having been agreed upon to coincide with the National Customs Exhibition. "The character of the Japanese is often revealed in Japanese bonsai. The exhibition shows their ingenuity in creating sincerely beautiful things such as the bonsai. Things that take many months and years to do. The patience of the Japanese is evident in what is displayed here." And again and again his enthusiasm was present in what he saw.



国風展に合わせて日本出張の日程を組んだ
というポトマック盆栽協会長のミースさん

At the Bonsai Society's Show on the exhibition grounds, for 25 days a geisha did live performances. "Bonsai when seen are magnificent." And even she, limited in her knowledge of bonsai had an eye of appreciation for them.

< Photo in book:
"Mr. Meis of the Potomac Bonsai Association scheduled his Japanese business trip to be able to attend the National Customs Exhibition."

BOOK REVIEW

THE NATURE and PROPERTIES of SOILS: TENTH EDITION by Nyle Brady, Macmillan: New York (1990), 621 pages, \$46.50 (ISBN 0-02-313361-9). Reviewed by Tony Meyer, Potomac Bonsai Association.

The restyling of a great bonsai into a masterpiece is a rare event. Similarly, Nyle Brady, former Professor of Soil science at Cornell University, has transformed this classic text on soils, originally authored by Lyon and Buckman in 1922, into a masterful reference guide. "The Nature and Properties of Soils" is comprehensive and well-written, incorporating the latest soil science concepts and findings in language a layperson can understand. The text is reader friendly, with generous 8.5" by 11" page format and large type face, well-displayed figures and easy to use glossary and index. For the long-term bonsai enthusiast, "The Nature and Properties of Soils" is a good read and an excellent reference.

Much of this book is directly relevant to bonsai culture or helps to de-mystify bonsai soil practices. Central concepts include: the major components of mineral soils (organic and inorganic matter, soil water and soil atmosphere); the dynamic activity (pH) of hydrogen and hydroxide ions in soil solution; soil texture (the size distribution of soil particles such as sand, silt clay); the pore space of mineral soils and its effect on soil moisture; the content of oxygen and other gases in the soil atmosphere; the influence of soil temperature on soil nutrients and plant growth; the role of soil colloids (fine fractions of clay and humus) which house essential mineral elements; and the positive impact of mycorrhizae, "fungus root," on plant nutrition.

"The Nature and Properties of Soils" offers a concise explanation of some of the topics which often vex the bonsai enthusiast because of conflicting information. The chapter on organic soils includes discussion of organic

THE CHINA BONSAI COMPANY

"The Historical Roots of Bonsai are in China"

The China Bonsai Company is a division of China Best, Inc., Seattle, Washington and Canton, China. The purpose of the China Bonsai Company is to represent directly, selected Chinese Bonsai nurseries to the American Bonsai nursery community. The Company, a licensed importer, is committed to expanding the American Bonsai collectors' appreciation and understanding of the major styles of China's Bonsai schools and, in particular, Guangzhou's Ling Nan School of Bonsai.

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- China's National Bonsai Masters
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- The Puget Sound Bonsai Association (member)

THE CHINA BONSAI COMPANY

119 South Jackson Street
Seattle, Washington 98104

Phone: 206-622-2858 Fax: 206-682-5383

compounds, the genesis and nature of humus, the formation of nitrogen in soils and the effect of clay content on stabilizing soil nitrogen. The section on peat, its composition and classification, is particularly excellent.

Less central to bonsai culture but none the less interesting are presentations on rock classification, the mechanical and chemical properties of weathering and the evolution of soil classification systems. Some sections are complex and are clearly for reference, such as the discussion of animal and plant organisms commonly present in soils; the carbon, nitrogen, sulfur, phosphorous and potassium cycles; aand cation and anion (positively and and negatively charged ions) adsorption and exchange.

For myself, ten years into bonsai and often frustrated by unanswered questions about the horticultural basics, "The Nature and Properties of Soils" is a refreshing addition to a library otherwise dominated by aesthetics and "how to" guides. It is a sound investment for those who wish to broaden the scientific foundation for their bonsai practise.

The above is a reprint from what appeared in Volume XXX No. 3, the May/June 1991 issue of "Bonsai Clubs International" with the permission of the author, Tony Meyer a member of Brookside.

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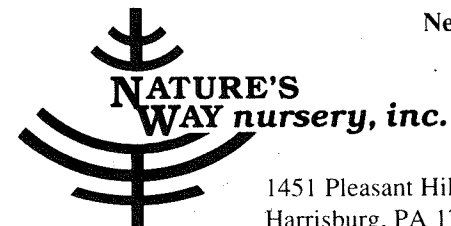
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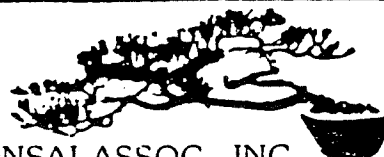
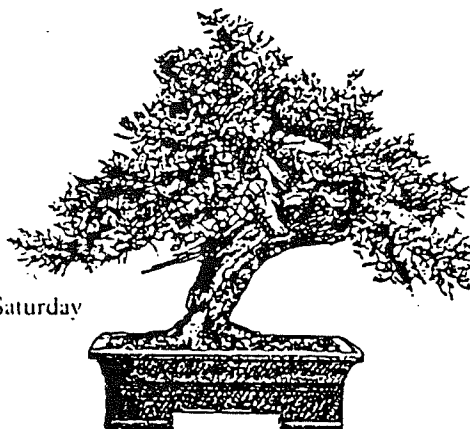
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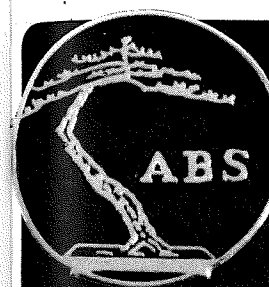
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