

POTOMAC
BONSAI
ASSOCIATION

Newsletter

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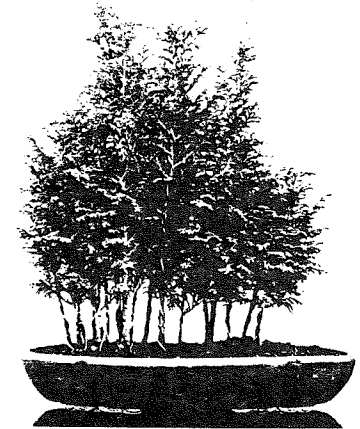
SAWARA (BLUE MOSS CYPRESS)

Formal Upright (Chok kan) & Raft (Ikadabuki)

by Shōryūgen Shin & Rinbokusei Ichi

Editor's Notes: The above article was translated from the 1975 book "Directions for the Preparation of Pine and Conifer Bonsai with Illustrated Explanatory Notes".

This translation concerns the sawara chamaecyparis or false cypress. Japanese use both hinoki and sawara for bonsai. The sawara addressed in the translation has a leaf structure very similar to that of a hinoki. In nature, it grows in a narrowly pyramidal shape with horizontal branches and is rather loose and open throughout. Sawara is a variable species with many popular varieties of which "Boulevard" (Cyanoviridis), with extremely light blue foliage, a good clone, appears under several names including Blue Moss Cypress.



SAWARA - RAFT STYLE

Sawara and hinoki cypress are robust healthy trees which can be turned into a number of different popular styles of quality bonsai. The delicate, small ever-green leaves found on both sawara and hinoki are artistically gratifying. Sawara is one of the family of chamaecyparis.

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The habitat of the hinoki family (sawara included) extends into North America and Southeast Asia. The bark of the tree is flaky, scaly, old in appearance, which of necessity introduces lengthwise cracks in the tree's texture. The small branches have a flatness and there is a scaly, flaky, old appearance to the leaves which are disposed on minute branches attached to the main branches. The qualities of hinoki and sawara are completely identical and therefore, the same techniques are used to prepare them as bonsai. The only difference between sawara and hinoki, is that the ends of the leaves of the sawara are pointed and sharp, while the ends of the hinoki leaves are rounded (see the accompanying illustration).

PROPAGATION METHOD AND TREE SHAPE

One method of propagation is to take the subject tree as a cutting from a mother tree in the forest. The cuttings can be taken from the fluttering tips of branches which have grown to about 10 cm (4 inches) in length, something that has taken place over a period of years and months, something that did not happen overnight. Place the seedlings in a box or pots.

One detail, as many as 100% of the cuttings can be kept alive if the instructions are followed from the start.

CUTTINGS AND 1-2 YEARS

Method for Cuttings. A suitable time for taking cuttings is during the height of the rainy season in June when the humidity is high. Follow the illustrations in order to make the cuttings and to plant them in the cutting bed.

Having completed the above, water the soil until water flows from the bottom of the container and place the container in one-half-day shade for a period of about 15 days. After that, place the container in a location with a Northern exposure and let the cuttings remain there for about 15 days.

Managing for the rest of the First Year. By the first week in July, roots will have sprouted and grown sufficiently so that the cuttings can be placed on an outdoor shelf in a sunny location. As soon as the surface soil appears dry, water with tapwater.

September 10th to 20th - apply fertilizer for the first time to the cuttings. A small quantity of rape-seed fertilizer powder should be applied to the surface of the soil preferably at the extremities of the roots. It is adequate to fertilize only once during the first year.

December 1st to 10th - place the wood box or pots containing the seedlings in the shelter of a greenhouse.

Second Year - Potting - Remove the plants from the greenhouse during the period of April 1st to 10th and place them outdoors on a shelf in a sunny location. The time to pot the sapling is when the "wick" or top has grown about 1 to 2 cm (1/4 to 1/2 inch) after it has been removed from the greenhouse.

The pot should be a number 3 to 4 unglazed, deep pot. Carefully follow the illustrations.

Having potted the sapling, water the pots until water flows from the bottoms, and after the watering, immediately place the plants outdoors on a shelf in a sunny location.

Differences in Sawara and Hinoki



Managing the Fertilizer Application - Once the plants have been placed on an outdoor shelf, the topsoil will occasionally dry out (in about one to two days) and when that occurs, the soil should be watered. The rate for applying rape-seed fertilizer dumplings is three balls during the first ten days of May, again in the first ten days of August, and finally in the first ten days of September. Do not insert the dumplings into the soil, but let them rest on the surface and not in the same locations as the previous balls.

December 1st to 10th place the plants in a greenhouse.

THIRD YEAR - LEAF PLUCKING

The third year events begin with the removal of the potted tree from the greenhouse and placing it outdoors on a shelf. The same tasks are done at the same times as cited for the second year with the addition of sprout plucking during September 1st to 10th. Do not neglect or only halfway complete the operation of sprout plucking if you desire to obtain a quality bonsai.

Leaf Plucking - Please refer to the illustration. The desired shape of the tree as a whole is triangular. To achieve this shape, pluck the top or "wick" where maximum growth occurs, and concentrate on establishing the triangular shape with the branches in the mid-section of the tree where plucking is kept to a minimum. The plucking is done by holding the branches with the fingers and pulling off the excess portions.

FOURTH YEAR

The applications of fertilizer and water are done exactly to the same schedule as cited for the third year. Do not miss the initial time to begin so that the sequence of operations stays in phase.

Wiring and Transplanting: During April 1st to 10th, remove the plant from the greenhouse. Immediately wire the trunk and then transplant into a slightly oversized pot.

The wire is applied to straighten and thus remove the bend in the trunk.

The wire is applied before the plant is broken free from the old pot. See the illustrations.

Once the trunk has been straightened, and the plant potted again, water until it runs from the bottom of the pot and immediately place the potted plant outdoors on a shelf where it will receive full sun.

Branch Removal and Leaf Plucking: May 1st to 10th, remove the large size branches. Refer to the illustrations. Cut the branches at the points where they join the trunk. Remove any branch which is laterally adjacent to another branch (bar branch), removing them alternately from side to side (see the illustration). The effort should be directed toward opening up the tree structure while retaining a good blending of branches into the overall shape.

Having completed the removal of the branches, usually the next step in shaping the tree is leaf plucking, which is to be done between September 1st to 10th. Leaf plucking is done as it was in the third year, the general rule is to maintain the overall triangular shape by modifying both main and side branches.

To produce a long, narrow branch of the shape shown in the illustration, pluck the sprouts so that the leaves taper toward the ends of each branch with a slightly curved edge to the triangular shape. Small branches which are suspended within the triangular pattern need not be plucked.

FIFTH YEAR - WIRING

Leaf plucking, applying fertilizer, and watering follow the same schedule as during the previous year with the addition of wiring the branches.

Wiring Branches: The suitable time for wiring and for the wiring to remain on the tree is from November to March with the exceptions of extremely cold winters. Employ annealed copper wire, bend the wired lower branches slightly downward, the

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middle branches horizontal, and the upper branches slightly upward. Thus, the arrangement of the branches is significant. Accordingly, apply the wire skillfully so that it can be viewed from any direction and bend the branches so that they also appear when viewed vertically as shown in the illustration.

SIXTH YEAR - PLANTING IN A BONSAI DISPLAY POT

Plant the bonsai in a bonsai display pot between April 1st and 10th. It is sufficient for the pot to be rectangular, elliptical, or oval in shape, thin walled and of a matte-finish. Spread a thin layer of red clay pellets inside the bottom of the pot and then place a small amount of potting soil on top of the pellets.

Place the plant into the pot after one-third of the soil and accompanying roots have been removed from the rootball. The emphasis in potting should be to locate the trunk of the tree 1/3 to 2/5 from one edge of the pot when viewed from the front, the longer lower branch extending toward the center of the pot. Consideration must be given to the roots in that when spread out, they will be accommodated in the pot. Concentrate on filling all the voids in the root system with potting soil.

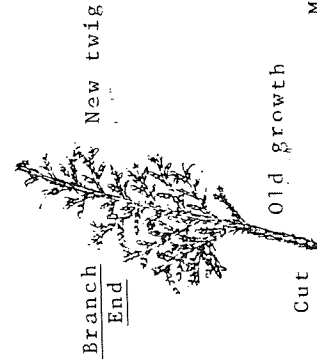
Henceforth, every year fertilize once during May, August, October, water adequately, and pluck leaves from May through September. The objective is to wire any portions of the tree which violate the desired shape and thereby especially preserve the spirit of the tree. Conditionally, transplant on the average of once every three years.

INSECT DAMAGE - PROTECTION AGAINST

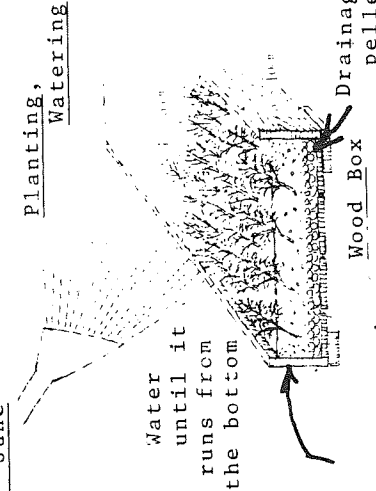
Hinoki and sawara require a location with air movement as much as they need a sunny location which together almost eliminate the occurrence of any insect damage. The common insect enemy is the red spider mite which attaches to the plant during the June time frame. If the insects are detected, use an insecticide on the market for that purpose, applying it at one week intervals making as much as two to three applications.

SAWARA CYPRESS

FIRST YEAR TAKE CUTTING - June

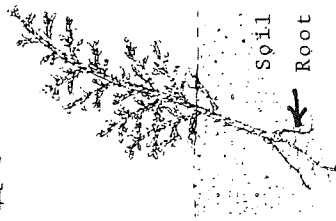


Insert the lower part in soil so that the diagonal cut faces as shown



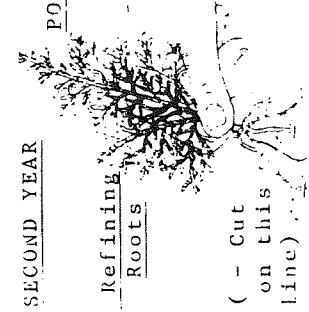
Plant cuttings on a slight slant and space so that they do not touch, 4 - 5 cm on centers

ROOTS SPROUT - July 1 - 10

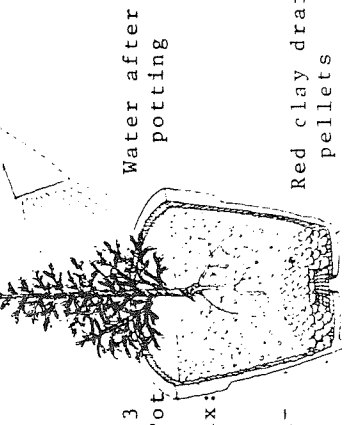


For 15 days vie 1/2 day shade, -next 15 days put in Northern exposure.

SECOND YEAR Refining Roots

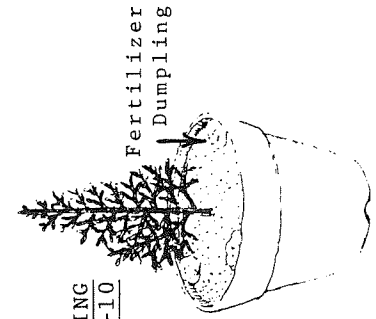


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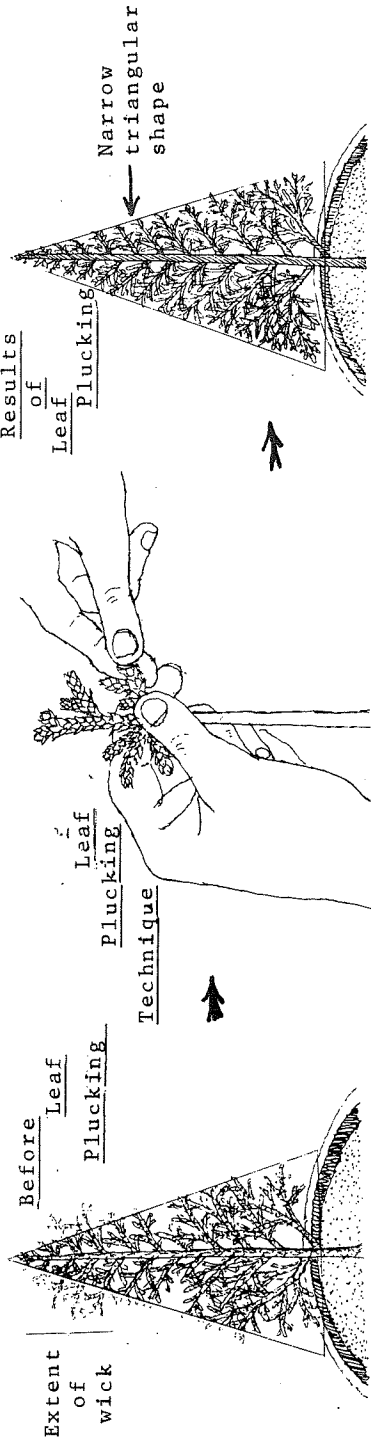
Remove soil and prune roots so that 3 cm (1-1/4 inches) remain.

FERTILIZING May 1 - 10



Apply 3 rape-seed balls each the size of the tip of the little finger. Apply again in August & October

THIRD YEAR LEAF PLUCKING - September 1 - 10

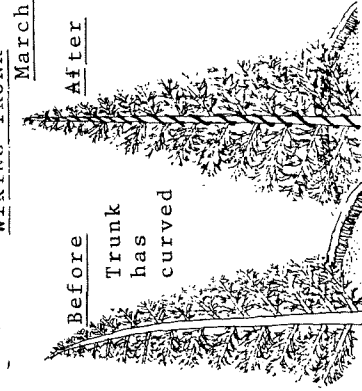


Only remove segments which extend beyond the triangular shape.

Results of leaf plucking, - tree has a triangular appearance when viewed from the front.

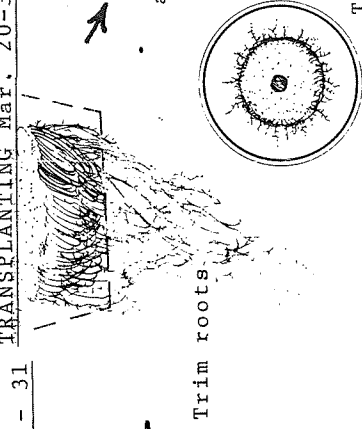
FOURTH YEAR

WIRING TRUNK



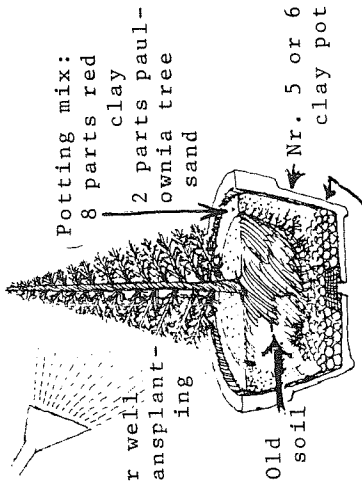
Use annealed copper wire with a diameter of 1/3 that of the trunk. Wire is left on for one year.

TRANSPLANTING Mar. 20-31



Water well after transplanting

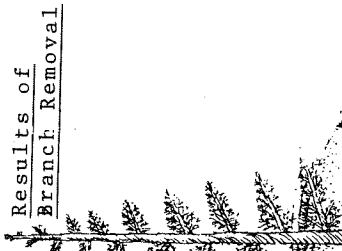
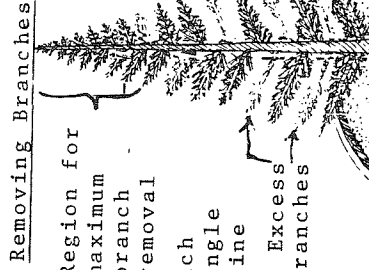
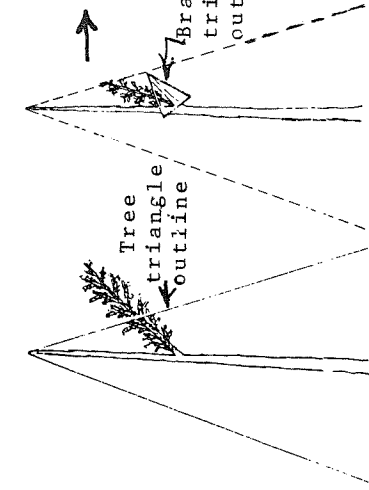
Remove 1/2 of soil and this season's roots. Leave 2 cm.s of roots extending from soil of root ball.



Place plant with in center of pot

FOURTH YEAR

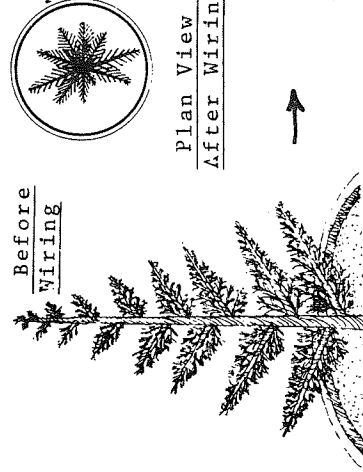
LEAF PLUCKING May 1 - 10 to September 1 - 10



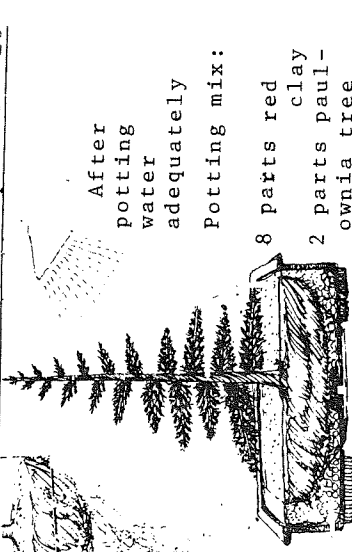
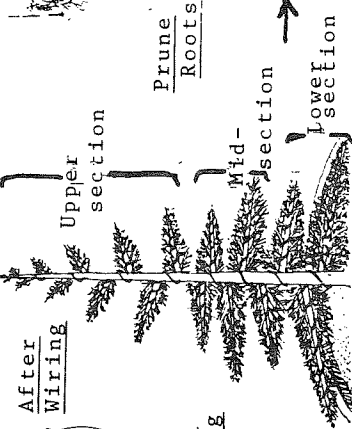
Pluck wick, branches and small branches to retain triangular shapes.

Retain a balance in removing branches so that intervals between remaining branches is not disproportionate

FIFTH YEAR WIRING BRANCHES November - March



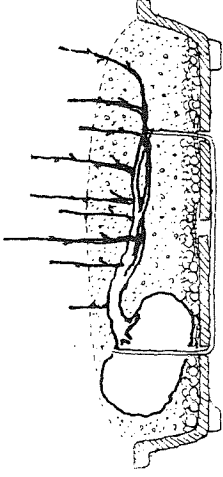
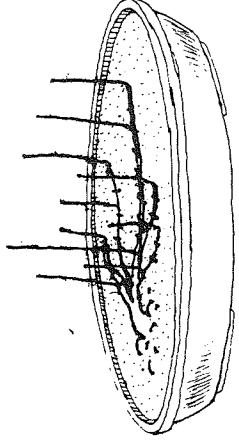
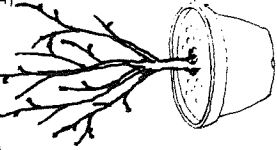
Wire with annealed copper wire with a diameter of 1/3 thickness of the branch being wired. Arrange branches so that they are positioned properly from top and side views.



It is economical to use an over size pot to accommodate root and tree growth. Plant tree so that trunk is 1/3 from edge of pot

FIRST YEAR

PLANT IN BONSAI POT March 20 - 31



Wire all main and side branches so that they stand vertically in the pot.

Having planted the tree, mound up the soil, water, apply liquid fertilizer, place outdoors on a shelf in full sun. Leave soil mounded up for one year during which time roots will have grown.

SECOND YEAR

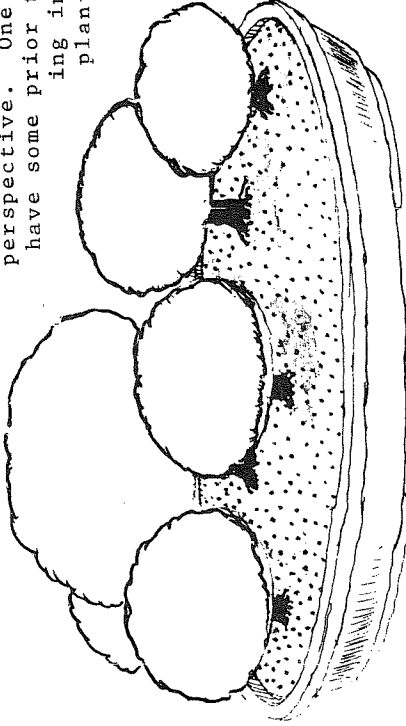
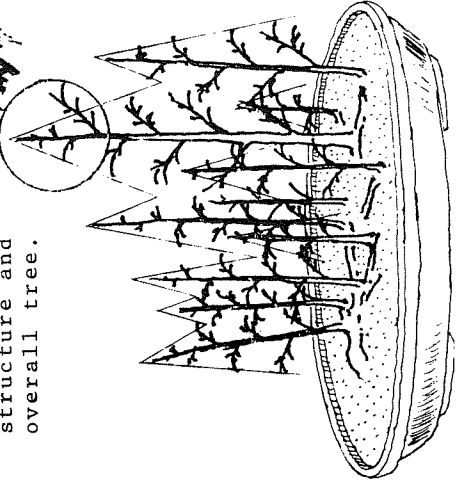
LEAF PLUCKING June 10 - 20

Pluck to retain triangular shape to branch structure and overall tree.

YATSUBUSA SAWARA (Blue Moss Cypress) GROUP PLANTING

2/3 or 3/7

Position the main tree from one edge of the pot when viewed from front and side. Place the small plants to emphasize perspective. One should have some prior training in group planting.



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SAWARA (BLUE MOSS CYPRESS) SCHEDULE OF EVENTS

DATES	YEAR					
	FIRST	SECOND	THIRD	FOURTH	FIFTH	SIXTH
Mar. 20-31				Wire trunk Repot		
Apr. 1-10		Pot				Pot in bonsai pot
		Place outdoors on top of shelf in full sun				
		Water adequately				
May 1-10		Fertilize once				
		Remove branches				
		Start sprout plucking				
Jun. 1-15	Plant cuttings Provide 1/2 day shade,					
Jun. 15-30	Place outdoors with Northern exposure					
Aug. 1-10		Fertilize once				
Sep. 1-10		Pluck sprouts		Terminate sprout plucking		
Oct. 1-10		Fertilize once				
Nov. 1-10				Wire branches		
Dec. 1-10		Place in greenhouse				

BONSAI PHOTOGRAPHY



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SAWARA CYPRESS

SCHEDULE OF EVENTS (Continued)

SEVENTH YEAR AND SUBSEQUENT YEARS : Repot every third year.

otherwise repeat the sixth year operations every year.-----

RAFT STYLE

FIRST YEAR

Mar. 20 - 31: Place in a bonsai pot. Place outdoors on shelf in full sun. Water adequately.

May 1 - 10: Fertilize once.

Jun. 10 - 20: Pluck sprouts.

Aug. 1 - 10: Fertilize once.

Oct. 1 - 10: Fertilize once.

Dec. 1 - 10: Put in greenhouse.

SECOND YEAR AND SUBSEQUENT YEARS : Repot every third year.

otherwise repeat the operations cited for the sixth year cited above for the upright sawara.

Bending The Branch

"We should take advantage of the opportunity of a lifetime--during the lifetime of the opportunity." The Eighth Annual Potomac Bonsai Association Symposium on October 16 and 17, 1982, is just such an opportunity. There are three good reasons why PBA members should participate in the Symposium.

First, the lectures, demonstrations and workshops provide rare opportunities to improve our skills in creating bonsai. This year we will be treated to the traditional classical approach of Mr. Yuji Yoshimura as well as the contemporary styling preferred by Dan Robinson. By focusing on conifers, the Symposium will impart specialized information on some of the most important bonsai species.

Second, the bazaar affords a once-a-year opportunity to acquire the plants, pots, materials and tools needed to pursue this art. The vendors have been selected to provide the best variety, quality and prices. Nowhere else in the Potomac area is it possible to acquire bonsai supplies so conveniently.

Finally, this is our Symposium--organized by our own members. While it is primarily planned for our benefit and enjoyment, its success has attracted participants from all over the world. Hence, there are opportunities to share learning experiences with enthusiasts from other regions and countries. Costs are established to ensure that PBA will at least break even. If a surplus occurs, these funds become available for our other PBA educational programs, such as guest speakers and field trips.

Register now--it's the opportunity of a lifetime.

Bill Merritt
President

PBA VISITING ARTIST PROGRAM

Jerry Stowell initiates program as our first guest artist.

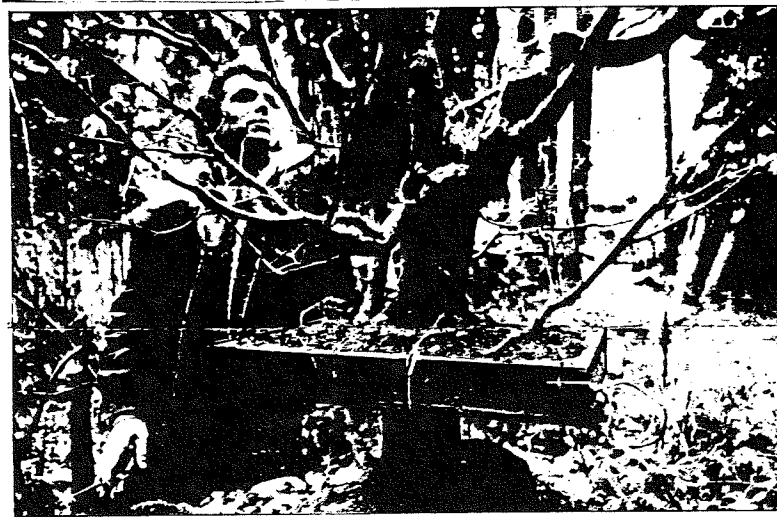
PBA has instituted a Visiting Artist Program which is totally subsidized by PBA Educational Funds. We are indeed fortunate to have had Jerry Stowell introduce the program as our first guest lecturer. Many of you know Jerry as the author of "The Beginner's Guide to American Bonsai". If you were fortunate enough to have visited his collection on the PBA Bus Trip this June, you would also recognize Jerry as an outstanding artist and a master of bonsai refinement.

On the weekend of 13-15 August 1982, our visiting artist had a busy time conducting five workshops at the various local clubs. From all reports the attendance was extraordinary. Jerry displayed a wide selection of his own trees which he miraculously managed to pack into his small car. He complimented his lecture with a slide presentation which documented the progressive refinement of some of his trees. In particular, Jerry emphasized the critical observation of trees in nature as a model for the refinement process.

The meetings concluded with a general critique of member's trees. Jerry's comments were extremely useful, and always diplomatic. Aside from the immediate enjoyment of his visit, the influence of Jerry Stowell's visit should become evident at future PBA shows as our trees increase in refinement.

Fred Mies, EVP

Air Layering



The above appeared in the "Scene" section of the "Seattle Times" on 28 December 1981 along with the article about Dan Robinson reprinted in August 1982 PBA Newsletter.

The following article appeared in "Golden Statements", Volume 5, Number 3 of March 1982.

AIR LAYERING - by Betty McEwen - Puget Sound Bonsai Association Quarterly 1/1982

The four inch trunk of this maple was airlayered originally in the usual way by removing about a 2-1/2 inch wide strip of bark from around the trunk, dusting the scar with rooting hormone, wrapping with wet sphagnum moss and covering with plastic tied at top and bottom. (The general rule is to remove a strip of bark as wide as the trunk is thick. Also, be sure to scrape the scar to remove the cambium.)

When the roots formed and grew into the moss, they were considered too weak and tender to support a tree of this size, so Dan constructed this intriguing tray around the trunk. He further strengthened the tray with wires so it does not move around and then filled it with soil to cover the new roots. They are growing out into the soil quite well now; and when he thinks they are strong enough, possibly by late Spring or early Summer, he will remove the tray, sever the tree just below the new roots and plant. At that time, he will also strip off most of the leaves to prevent excessive transpiration while the new roots are getting established.



This snapshot of an Englemann spruce is a picture of the tree which Dan Robinson will demonstrate his approach to developing a bonsai. The tree was collected in Oregon. The photograph was provided by John Hinds.

Following the demonstration, the styled tree will be the prize of a raffle.

SCHEDULE OF THE 1982 PBA SYMPOSIUM

Literati Exhibit

In keeping with our literati theme, Arschel Morell is putting together a wonderful selection of fine examples of the literati bonsai style, which will be exhibited during the Symposium. These trees will be an inspiration for us all.

Saturday, October 16

Bazaar

On Saturday, the Bazaar will open at 8:00 a.m. and remain open until 6 p.m. Fred Mies is doing a great job assembling the best vendors in the country. These vendors all strive mightily to satisfy our bonsai needs, and we hope that PBAer's will be out in full force to welcome the vendors with purchases of their trees, etc.

Saturday Morning Program

Dr. Vince Covello will open the program at 8:30 a.m. His lecture, entitled "Suiseki: Japanese Viewing Stones", will be supplemented by a slide presentation. He will discuss suiseki characteristics and aesthetic qualities, the classification of suiseki, how to collect and display suiseki, and how to use suiseki with bonsai. Vince will also be offering magnificent stones for sale in the Bazaar.

Dan Robinson will then discuss the creation of ancient-looking bonsai. Dan believes deeply in the power of the "natural" look, having studied old growth western trees for many years and developed highly refined techniques for creating the ancient illusion in bonsai. He will discuss his philosophy on this subject, and demonstrate his special techniques using a large, beautiful Engelmann spruce collected in Oregon. One of Dan's trees was the first American bonsai to be acquired by the National Arboretum as the initial step in creating an American Bonsai Collection.

Saturday Luncheon

A convenient Luncheon (included as part of your registration fee) will be served in the Kona Kai Room at the Bethesda Marriott. Dan Robinson's creation from the morning session will be raffled off, and the lucky winner will have a prize for life.

Saturday Afternoon Program

Following lunch, Marion Gyllenswan will give a lecture and demonstration on the literati (or bunjin) style. A main objective of this year's Symposium is to develop a clear idea about this difficult and advanced style. It is a style that transcends the general styles of formal upright, cascade, etc., and is intended to express the same feelings that early Chinese scholar-artists attempted to evoke in their landscape paintings. (For an excellent series of articles on the literati style, see the Winter 1981 issue of International Bonsai.) Only a true artist like Marion could enlighten us on this complex and fascinating subject. Her mystical beauties will be raffled off.

Yuji Yoshimura will then begin his masterful presentation. First he will give a lecture and slide show on advanced techniques for group plantings, and contrast the literati style with the classical style. Following a break, he will demonstrate his group planting techniques using dwarf Alberta spruce. The resulting masterpiece, involving over ten trees planted in a stunning, large shallow container, will be raffled off in a very exciting event.

Saturday Afternoon Workshops

After the end of the Yoshimura program, two workshops will begin simultaneously at 4:30 p.m.

One of these workshops will be led by Yuji Yoshimura, and the other workshop will be led by Keith Scott.

First-class material will be used in these workshops and, as a result, real treasures will be produced in them. Procumbens nana juniper is one type of material being considered, and both workshops will offer ideal "hands on" experience.

Yuji Yoshimura's workshop will highlight the classical style. On the other hand, Keith Scott's workshop will focus on the literati style. Both are limited to 15 participants.

Saturday Night Reception and Banquet

The reception will begin at 6:30 p.m., offering us all a chance to greet old friends and meet new ones. The Banquet will begin at 8:00 p.m. It will be a fun-filled evening, punctuated by an exciting auction and a hilarious skit featuring your favorite Kabuki actors (a.k.a. Koetsch and Merritt). Thanks to Molly Hersh, our Banquet Chairman, for arranging the evening festivities.

Sunday, October 17

Bazaar

On Sunday, the Bazaar will open at 8:30 a.m. and will close at 1:30 p.m.

Sunday Morning Program

Keith Scott will open the program at 9:00 a.m. As the famous source for "Tricks the Books Never Told Us", Keith has chosen as the topic for his lecture and demonstration "What You Do About the Bonsai That Have Gotten Away From You". He will discuss in detail the "tricks" of grooming, restyling, changing pots at the "wrong" time of the year, etc., using specimens brought from his bonsai nursery. It promises to be a unique experience, and will be followed by a raffle.

Next, Dr. David Andrews will provide the grand finale with a discussion and demonstration expressing his perception of the literati style, one that he has researched and pondered carefully. He will transform a Deodara cedar into a magnificent literati bonsai, and some lucky raffle winner will take it home.

Sunday Afternoon Events

After a lunch break, participants are offered the alternative of a workshop led by Dan Robinson or a collecting trip led by David Andrews. Both will begin at 1:30 p.m.

Dan's workshop will be a great opportunity to obtain first-hand experience in the techniques Dan will have discussed during his Saturday program. The trees will be excellent quality Shimpaku junipers, and in his workshop participants will learn about jin, shari and saba-miki. The workshop will be limited to 15 participants.

David's collecting trip will offer field experience to new and old collectors. Mary Holmes has been scouting the area for prime spots, and those going on this collecting trip can be assured of finding good material.

* * * * *

The PBA Symposium is being advertised not only around the country but also around the world (thanks to the diligent work of Molly Hersh and Jo Finneyfrock), and we can expect to draw bonsai enthusiasts from distant places. The Symposium has truly taken on the flavor of an international event in the Nation's Capital.

At the same time it is important that PBAer's support their Symposium. It is your Symposium and primarily for your benefit and enjoyment. If you have not already done so, we urge all of you to mark your calendar and mail in your registration form early to Godfrey Trammell. No better value for your bonsai money is to be found!

Bob Sitnick & Felix Laughlin
1982 PBA Symposium Co-Chairmen

1982 PBA SYMPOSIUM HIGHLIGHTS of the FORTHCOMING BAZAAR

To many participants, the most important and exciting aspect of any bonsai symposium is the bazaar. Here is where we obtain the tools and many of the raw materials we need to enjoy our craft, and practice the wisdom we extract from the lectures and demonstrations.

As usual, the 1982 PBA Symposium has attracted an outstanding collection of vendors. We are using the same facilities as last year, and again we shall accommodate eleven booths. We are pleased to have eight of last year's participants return for a repeat performance. Locally we have:

Chuck Bird	Plants, handmade pots	VA
Bonsai Associates, Inc.	Plants, tools, pots, etc.	MD
Bill Merritt	Plants, tools	VA

Our more distant participants are:

Lee Abrahamson	Tools, supplies	NY
Sharon Muth	Handmade pots	WA
Keith Scott	Plants, pots, tools	O
Phil Tacktil	Pots, tools, supplies	NY
Bill Valavanis	Plants, supplies, publications	NY

This year we shall welcome three newcomers:

Vincent Covello	Viewing STones	DC
Brussels Martin	Plant material	TN
Linda Mayben	Plants, supplies	FL

Since transportation is not a serious problem, local PBA members have a unique opportunity to obtain excellent and unusual plant material and supplies. The bazaar will open at 8:00 a.m. on Saturday 16 October at the Bethesda/Marriott Hotel. It is advisable to arrive early and make your selections quickly. Do not forget to attend the lectures inbetween visits to the bazaar!

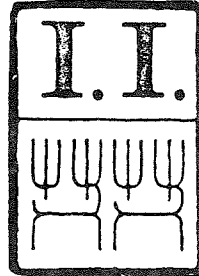
IKEBANA INTERNATIONAL PRESENTATION

Under the sponsorship of Ikebana International, Mr. Kazuhiko Kudo, Professor, Chara School of Ikebana, is scheduled to give an Ikebana (Japanese flower arranging) demonstration on October 19, 1982, in this area. Mr. Kudo is an outstanding artist of exceptional talent, and is the Executive Director of the Japan Ikebana Association (Nippon Geijutsu Kyokai), Tokyo, Japan.

IKEBANA INTERNATIONAL
WASHINGTON, D.C., CHAPTER # 1, INC.

PRESENTS

KAZUHIKO KUDO
MASTER
OHARA SCHOOL



DEMONSTRATING JAPANESE FLOWER ARRANGEMENTS

TUESDAY, OCTOBER 19, 1982
11am - 1pm

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PATRONS TICKETS \$ 10.00
GENERAL ADMISSION \$ 5.00

INFORMATION & TICKETS

MRS. JOHN C. PEARSON 243-5949
MRS. FRANK QUANTE 759-3083

GINZA before and after performance

U S NATIONAL ARBORETUM

FILM - "THE SPIRIT OF BONSAI", Thursday, Sept. 2, 10:30 am - This excellent film, a gift of the Nippon Bonsai Association of Japan, is in Japanese; however, it is an exceptionally beautiful film on bonsai and includes many scenic views of Japan.

The film will be shown in the auditorium of the Arboretum's Administration Building. It is about one hour in length and will be introduced by Robert Drechsler, Curator of the National Bonsai Collection.

HERB HARVESTING AND DRYING DEMONSTRATION, Wednesday, Sept. 8, 10:30 am - Holly Shimizu, Curator of the National Herb Garden. The demonstration will cover harvesting of herbs and different techniques of drying herbs. Plants will be harvested for seeds, leaves, or roots depending on the plant part which is used. Each program will be limited to 15 people. Phone 472-9279 for reservations. The program will be held in the herb garden office area in the National Herb Garden. In the event of rain, the program will be held in the Arboretum Administration Building Classroom.

BONSAI REFINEMENT WORKSHOP, Tuesday, Sept. 14, 1:00 pm - Robert Drechsler, Curator of the National Bonsai Collection, will conduct a Bonsai Refinement Workshop in which he will assist individuals in repotting and refinement of their bonsai. Participant must bring their own bonsai tools, wire, and soil if repotting is planned. The Arboretum will provide no supplies or equipment.

There is no charge for the workshop which will be held in the Bonsai workroom adjacent to the National Bonsai Collection. The workshop will be limited to five (5) persons, and advance registration is required. To register, please phone the Arboretum Education Department at 472-9279. Bonsai Refinement Workshops will be held on the second Tuesday of each month. Pre-requisite: A Beginning Bonsai Class.

HERB HARVESTING AND DRYING DEMONSTRATION, Wednesday, Sept. 22, 10:30 am - See description for Sept. 8.

TREE IDENTIFICATION WALK, Thursday, Sept. 23, 1:30 pm - Peter Mazzeo, Botanist, U.S. National Arboretum. Do you know the trees in your neighborhood? Learn to identify some of the many familiar and not so familiar trees found at the National Arboretum. Walk begins from the Fern Valley parking lot.

TOUR OF GOTELLI DWARF CONIFER COLLECTION, Thursday, Sept. 30, 10:30 am - Sue Frost, Curator of the Gotelli Dwarf Conifer Collection, U.S. National Arboretum. The Gotelli Collection is one of the most significant collections at the National Arboretum. Walk through this interesting collection of dwarf evergreens, some of which are only a few inches tall. Tour begins from the Gotelli Collection parking area.

NATIONAL ARBORETUM HORTICULTURE SERIES

U. S. D. A. GRADUATE SCHOOL

E-231 - WOODY LANDSCAPE PLANTS JEFFERSON \$35.00

HELD: National Arboretum, Administration Bldg., Classroom
Saturdays: Sept. 25; Oct. 2, 9, 16, 23. TIME: 10:00am to 12:00noon

Learn about landscape plants and how to use them. Using the resources of the National Arboretum, students will have laboratory and field sessions to examine the seasonal value, identifying characteristics, and general cultural requirements of selected trees, shrubs, vines, and ground covers.

E-HORT-230 - THE HOME GREENHOUSE ALLEN \$35.00 + 2.00 materials fee

HELD: National Arboretum, Activity Center TIME: 6:30pm - 8:30pm
Wednesdays: Sept. 29; Oct. 6, 13, 20, 27; Nov. 3.

Designed to provide fundamentals of building and caring for the home greenhouse and plants. Lectures and laboratories on the types of greenhouse structures; pointers and greenhouse construction.

E-HORT-130 - INTRODUCTION TO LANDSCAPE ARCHITECTURE R.BRILLIANTINE \$46.00

HELD: South Agriculture Building TIME: 6:00pm - 8:00pm
Wednesdays: Sept. 22, 29; Oct. 6, 13, 20, 27; Nov. 3, 10, 17, 24.

Theory and principles of landscape design and design process. Concepts of space allocation, enclosure, orientation, privacy, and environment. Introduction to materials and techniques includes earth forms, grading, and drainage.

E-PHOS-235 - NATURE PHOTOGRAPHY WORKSHOP HIGGINS \$69.00

HELD: National Arboretum, Classroom TIME: 6:00pm - 9:00pm
Wednesdays: Sept. 22, 29; Oct. 6, 20, 27; Nov. 3, 17. Saturday field trips - Sept. 25; Oct. 9-10, 23.

Close-up and landscape photography techniques. Composition and lighting stressed and lenses discussed as appropriate. Emphasis on how to see or locate and best render nature subjects.

Natural History and Field Studies (Co-Sponsored by the Audubon Naturalist Society of the Central Atlantic States)

E-NATH-145 - WOODY PLANT IDENTIFICATION Mazzeo \$46.00 + \$2.00 materials fee

HELD: Downtown at FAA Bldg. TIME: 6:00pm - 9:00pm
Tuesdays: Sept. 21, 28; Oct. 5, 12, 19, 26; Nov. 2, 9.
Field trips for classes are Saturday, Oct. 9, 23.

Introduction to principles of plant taxonomy and techniques of identification. Study of woody vascular plants of Central Atlantic region. Laboratory and field practice in identifying specimens through use of identification keys. Two Saturday field trips.

E-NATH-235 - NON-FLOWERING PLANTS MAZZEO & ASSOCIATES \$46.00

HELD: National Arboretum, Administration Bldg., Classroom
Mondays: Sept. 20; Oct. 4, 18; Nov. 1, 15, 22. TIME: 6:30pm - 8:30pm
Field trips: Sept. 25; Oct. 9, 23; Nov. 6, 20.

An Introduction to the biology and identification of non-flowering plants, including algae, fungi, lichens, mosses, ferns, and fern allies. Emphasis on those species commonly found in the Central Atlantic region.

REGISTRATION:

Registration: Mail registration will be accepted beginning July 1st through August 28th. Registration in person will take place on the patio of the U.S. Department of Agriculture, 14th & Independence Ave., S.E., Washington, D.C. 20250; September 7 through 11.



SEPTEMBER CALENDAR 1982

- Thursday, Sept. 2 Film - "The Spirit of Bonsai"
Wednesday, Sept. 8 Herb Harvesting and Drying Demonstration.
Tuesday, Sept. 14 Bonsai Refinement Workshop
Wednesday, Sept. 22 Herb Harvesting and Drying Demonstration.
Thursday, Sept. 23 Tree Identification Walk
Thursday, Sept. 30 Tour of Gotelli Dwarf Conifer Collection.

U.S. NATIONAL ARBORETUM, 3501 NEW YORK AVENUE, N.E. WASHINGTON, DC 20002 (202)472-9279

CALENDAR OF EVENTS

11 September: 10:00 a.m. at the Gulf Branch Nature Center. Meeting will cover Saturday two aspects in preparation for NOVA show in October. Bill Merritt will discuss grooming bonsai for display and also how to display bonsai to include display stands, moss, rocks, etc. Bring trees in various stages of development for grooming. Trees to be in October show should be in bonsai pots (not training pots). Wiring is acceptable if done neatly. Wiring of trunks of trees is not acceptable for advanced bonsai.
NORTHERN VIRGINIA BONSAI SOCIETY (703) 356-2676

12 September: 2:00 p.m. to 4:30 p.m. at Bowie Community Center on Stonybrook Sunday Drive. Richard Meszler will conduct an indoor bonsai workshop using satsuki azalea. For further information call Akey Hung at (301) 344-2038 (work) or (301) 390-6687 (home).
BOWIE BONSAI CLUB

SPECIAL CALENDAR ANNOUNCEMENT

18 September: 10:30 a.m. Special Lecture Demonstration conducted by Marian Saturday Borchers, of The Bonsai Garden, Tampa, FL. This is a joint lecture sponsored by the Brookside, Kiyomizu, NOVA, and Washington clubs. There is no fee to attend, and members of other clubs are invited to enjoy Marian's demonstration and lecture to be at National Arboretum, R & 26th Sts. NE.
BROOKSIDE (301) 871-8440
KIYOMIZU (301) 292-3167
NOVA (703) 356-2697
WASHINGTON (202) 583-2676

18 September: 1:30 p.m. at National Arboretum (R & 26th Sts., NE) Special Work- Saturday shop conducted by Marion Borchers, visiting artist from Tampa, FL. Marian will supply the indoor material, which is to be gardenias and offer a styling workshop for 15 participants. This program is being organized jointly by the Brookside and NOVA clubs. A fee of \$25.00 is required to cover expenses, and reservations must be made with your educational vice presidents.
BROOKSIDE (301) 871-8440
NOVA (703) 356-2697
Members of other clubs will be accommodated if space permits. Contact Cynthia Eisler (301) 871-8440 if you wish to be placed in reserve

19 September: Residence of David and Barbara Bogash, 8510 Stevenswood Road, at Sunday 2:00 p.m. We will be showing video tape of Dan Robinson's demonstration at the 1981 ABS Convention. This will be followed by a workshop on indoor material with Marion Borchers.
BALTIMORE (301) 669-1487

If you plan to attend a meeting other than your parent club's meeting, it is recommended to telephone the number listed above to confirm the arrangements. Because of any of a number of reasons, the schedule above can be changed. To be further on the safe side, you can telephone as early as possible to let the club know that you expect to attend and then request that you be advised of any schedule changes.

ART DISPLAYS AND EXHIBITS

July 19, to September 30, 1982
Hayfever Plants of the Washington, D.C. Area
August 31 to October 6, 1982
Theroms (paintings on velvet) by the Chapter of the Early American Decorators

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