

Newsletter

CALENDAR OF EVENTS APOLOGIA: Please accept my sincere apology for being so tardy in getting out these last issues of the PBA Newsletter. I will make every attempt to get out the next issues so that the future issues will be delivered before the month on the masthead. You may have noticed that the Calendar of Events has listed events so that the information would reach the readers in a timely fashion and in spite of the issue date appearing on the Newsletter. 7 May Tuesday

So I ask you to please do not think that you have missed any issues.

The Editor, 21 April, 1991.

U.S. NATIONAL ARBORETUM (202) 475-4857. 6:30 to 9:00 p.m. Yoshimura Center. Fee \$12/FONA members \$10. BONSAI REFINEMENT WORKSHOP by Dan Chiplis, Assistant to the Curator of the National Bonsai Collection. This workshop is designed for individuals who need assistance with a bonsai and have had some experience with growing them. If you need personal attention with repotting or refining your plant, this is the workshop for you. Materials are not provided. *PREREQUISITE - Beginners Bonsai Class. Registration required.

ADVERTISEMENTS
EDITOR
PRESIDENT: Bob

Chris Yeapanis; SECRE RELATIONS: Tony Meyer

Sitnick;

and/or

ARTICLES

J. F. Koets

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Kinerson; Springfield

Id, VA 22152; EDUCATIONAL V

(703) 569-9378 VICE PRESIDENT:

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Newsletter

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

NON-PROFIT OR U.S. POSTAGE MERRIFIELD, V PERMIT NO. 65

9, 14, 16, 21 May Tuesdays and Thursdays

U.S. NATIONAL ARBORETUM (202) 475-4857. 10:00 a.m. to
12:30 p.m. Yoshimura Center. Fee \$75/FONA members \$70.

INTERMEDIATE BONSAI by Robert Drechsler, Curator of the
National Bonsai Collection. This four session class is
for those who have had an introductory bonsai class and
would like specialized instructions on a variety of
group plantings. It will cover several styles and the
illusions each style attempts to create. Students'
personal bonsai will be critiqued by the class. Materials are included. Students should bring their own
bonsai tools. REGISTRATION REQUIRED.

11 May Saturday NORTHERN VIRGINIA (703) 765-7223. 10:00 a.m. at Green Spring Horticulture Center. JAPANESE MAPLES by Dave Dambowic and Fred Eiland.

- 14 May Tuesday

 CHESAPEAKE Mr. Steve Choi will conduct a beginner level workshop "TRIMMING material: Cork Bark Elm." For further information contact Mr. Steve Choi at (301) 266-7336 or (202) 261-8131.
- 16 May Thursday

 BROOKSIDE (301) 365-7621. 7:30 p.m. at the North Chevy
 Chase Recreation Center. AZALEA BONSAI and the HANDLING
 of WHIPS by Janet Lanman, longtime bonsai expert.
- 18 May Saturday

 KIYOMIZU (301) 423-8230. COLLECTING TRIP. Contact Chuck
 Bird (301) 292- 3167 or Joan Stephens (301) 423-8230
 for details.
- 18 May Saturday
 WASHINGTON (202)583-2676. 2:00 p.m. at the U.S. Nation1
 Arboretum. INDOOR BONSAI. Martha Meehan, Meehan's
 Miniatures, will be the beginning event in our series of workshops on indoor bonsai. Plant material will be available for sale.

Potomac Bonsai Association



Fall Symposium '91 US National Arboretum Sept. 28-29

Marion Larry Roy Steve Gyllenswan Jackel Nagatoshi Pilacik

Registration Info: PBA Symposium T Holden 4337 Stream Bed Way Alexandria VA 22306

- 19 May Sunday

 BALTIMORE (301) 823-0863. Contact telephone number for more information on a FIELD TRIP. There are many wonderful bonsai nurseries in the Baltimore/Washington ,D.C., area. Those interested are asked to join us on a field trip to some of them. Be prepared to leave the parking lot of the Loch Raven library early. We hope to make a day of it.
- 19 May Sunday

 MEI-HWA (301) 390-6687. 2:00 to 4:00 p.m. at the White Oak
 Intermediate School, New Hampshire Ave., Silver Spring.

 BUNJIN BONSAI by Chris Yeapanis.

PBA ANNUAL AUCTION

Saturday 25 May, 1991

10;00 a.m. until ? (when nothings left)

where - Behnke Nurseries (Details in this
Dawn Rose Building newsletter.)
11300 Baltimore Ave.
Beltsville, MD
2 miles north of exit 25A Capital Beltway

8 June Saturday

NORTHERN VIRGINIA (703) 765-7223. 10;00 a.m. to 2:00 p.m. at the residence of John Simpson, 3617 Ridgeway Terrace, Lake Barcroft. ALL MEMBERS WORKSHOP - outdoors - Bring Trees to Work On. Also bring what you will need to work on your plant - i.e. tools, soil wire, pot. Bring your lunch - refreshments will be on the house. In case the

weather is threatening on that day, telephone $(703)\ 256-4615$.

9 June Sunday

U.S. NATIONAL ARBORETUM (202) 475-4857. Slide lecture at 1;30 p.m. in the Administration Building Auditorium. Fee \$4.00. Dr. Sidney Waxman, The University of Connecticut, will lecture on WITCHES BROOMS - SOURCE of NEW DWARF CONIFERS (Grace Wilson Lecture Series). Witches brooms have been a source for bonsai material, - i.e. the famous Zuishō white pine.

Join the Arboretum for a special lecture by Dr. Waxman who has been growing rare dwarf conifers for many years. In addition to his teaching career, he operates an extensive dwarf conifer nursery. He will discuss collections and origins of newer forms of dwarf conifers.

Registration required.

- 12 June Wednesday

 U.S. NATIONAL ARBORETUM BONSAI REFINEMENT WORKSHOP

 See May 7th entry same details apply.
- <u>WASHINGTON</u> (202) 583-2676. 2:00 p.m. at the National Arboretum. <u>Arschel Morrell</u> from the Baltimore Bonsai Club will be returning to continue helping us increase our knowledge about <u>growing</u> and styling azaleas. Members who participated in last year's workshop on azaleas are encouraged to bring last year's tree to this meeting.
- 20 June Thursday

 BROOKSIDE (301) 365-7621. 7:30 p.m. at the North Chevy
 Chase Recreation Fenter. 3 RING CIRCUS -- 3 old-timers,
 each assisted by one newcomer will be assigned similar
 plant material to create into a bonsai.
 Audience suggestions are encouraged.
- 22 June Saturday

 CHESAPEAKE Steve Choi at (301) 266-7336 or (202) 261-8131.

 JUNIORS' WORKSHOP SERIES -- Subject: INTRODUCTION to
 BONSAI. Material will be Serissa foetida.

 Time & place: 10:00 11:30 a.m. at Eastwood's Bonsai.

23 June Sunday <u>KIYOMIZU</u> (301) 423-8230. 2:00 p.m. at the Clearwater Nature Center.

BONSAI CLASSES

25 May and 29 June at Wolftrap Nurseries. See the advertisement in this Newsletter.

FUTURE EVENTS

5 thru 8 June

AMERICAN BONSAI SOCIETY ABS '91, Park City, Utah. It's the annual ABS bonsai symposium. For more information contact The Bonsai Club of Utah, P.O. Box 58975, Salt Lake City, UT 84158.

24 thru 29 July

BONSAI CLUBS INTERNATIONAL IBC '91, Birmingham, England. It's the annual BCI symposium. Flyers were included in the January 1991 PBA Newsletter or contact your club officers for information.

28 and 29 September

PBA ANNUAL SYMPOSIUM See page 3 in this Newsletter.

ANNUAL PBA AUCTION SATURDAY, 25 MAY, 1991, 10:00 A.M.

It's once a year that one has the opportunity to get some real bargains and rare finds. Yes, it's the Annual PBA Auction. Here's your chance to get such items as:

Trained bonsai

Starter stock

Pots

Wire

Tools

Books Etcetera

Not only is it an event where you can obtain items but also one where you can unload no longer needed or wanted articles, only bonsai or penjing or suiseki related. For example: trees in any stages of development for bonsai/penjing ranging from starter material to fully developed ones; pots of any kind from the display parts, through the starter or common clay or plastic pots; soil, wire;

from bonsai/penjing starter material to fully developed ones; pots of all kinds - from bonsai display pots to clay pots, starter pots, plastic bonsai pots; wire - copper or aluminum; bonsai tools; bonsai related books and magazines; and so forth.

In addition, those attending the auction will have a chance to shop at the Behnke Nurseries where the auction will take place. The Behnke Nurseries are not only a long standing organization in the Washington, D.C., area, but also can boast of offering an outstanding selection of nursery stock and gardening items. A reduced version of one of the Behnke Nurseries' advertisement taken from the "Washington Home Section" of the Thursday Washington Post appears on the next page.

PBA is once again grateful for the generosity of the Behnke Nurseries in offering free of charge, the room in the Dawn Rose Building for the auction.

SPECIAL! A large number of trees from the collections of Bob Coates and Dennis R. Hamel will be auctioned off.

AUCTION DETAILS

Note: THIS IS A COMBINED <u>AUCTION</u> AND <u>SALES</u>

Persons can either offer items for auction or for sales at fixed prices.

Are you getting crowded out by too many plants, pots that you do not know what to do with? Too many tools, wire, books, etc.?

HERE'S YOUR OPPORTUNITY TO TURN THEM INTO HARD CASH!

The auction will be held rain or shine - it's indoors. It will be in the Dawn Rose Building. Guide signs will be posted. This is the Behnke Nursery located at 11300 Baltimore Avenue which is also highway U.S. 1. Take the Capital Beltway to Exit 25A which is between the exit for I-95 and the Baltimore Washington Parkway - all exits leading north. The nursery is 2 miles north of Exit 25A.

ehnke llurseries Plants Just Right for This Area

Shade • Flowering & Fruit Trees

The finest selection to choose from Regular prices start at \$24.95 and up

> PLANT A TREE CELEBRATE EARTH DAY

Azaleas & Rhododendrons

No Doubt the Largest Selection in the Area Over 150 varieties, many new introductions. Choose while they are coming into bloom. Azaleas \$2.95 & up • Rhodos \$6.95 & up

Japanese Maples

Beautiful accents 'Bloodgood' • ' Aconitifolium' • 'Laceleaf' 'Garnett' • 'Crimson Queen' • 'Everred' • 'Viridis'

Roses

Over **325** varieties to choose from. All are potted, #1 plants, not packaged, \$10.95 & up Hybrid teas • Floribundas • Grandifloras • Climbers Meidilands • Miniature & "Baby" Tree Roses

55 varieties of "Old Fashioned Roses" This should please many collectors.

Evergreens

Broadleaf and Needle Varieties Looking for something different? Exciting selection of unusual and dwarf evergreens. For foundation planting and in rock gardens; or as accent plants, there are no finer evergreens to plant than the dwarfs - Don't hide your home behind unsuitable evergreens - very little trimming, years of enjoyment.

PERENNIALS - 1800 varieties - in pots
SPECIALISTS in the newest varieties and old favorites

25% OFF PERENNIALS OF THE WEEK 25% OFF DICTAMNUS (Gas Plant) • LAMIUN (Dead Nettle) A GOOD BITY

Date: 25 May, 1991 Saturday SCHEDULE

8:00 a.m. Behnke Nursery opens.

9:00 a.m., All persons wishing to auction or sell items should have brought them to the Behnke Nursery by this time. This will facilitate arranging the items on the consignment table, determining the initial sequence for auctioning the items and mainly to have the items listed.

ALL ITEMS MUST BE LISTED!

Please have a written description accompanying each item for auction which the auctioneer can read when presenting an item for auction.

The following minimum amount of information, in so far as possible, should be given:

- 1. Where and when obtained.
- 2. For plant material: the common name, the scientific name if known, and the age if known.
- 3. Minimum starting bid if desired.

10:00 a.m. AUCTION and SALES BEGIN

End Time: This is contingent on the amount of material to be auctioned coupled with the audience participation. The event will terminate when there is no more interest shown in bidding but no later than 7:00 p.m. when the Behnke Nursery closes

There is a 15% Commission on all sales which goes into the PBA Treasury.

PROPAGATION 39 CUTTINGS

Now's the time of year when pruning bonsai is a must activity. Do you get concerned about all that healthy material going to waste? Cuttings always afford one an opportunity to propagate more trees of precisely the same variety as the plant from which the cutting came. It assures one that when the mother plant dies, there's a replacement for it. This always seems to happen in my case. Also if one does this for a succession of three to five to five years, you'll have the desired mix of trees of varying trunk diameters for that forest planting you've always wanted.

Over 10 years ago the February 1981 issue of the Newsletter contained a number of articles on how to propagate cuttings. Recently "PLANTS & GARDEN NEWS" published by the Brooklyn Botanic Garden published two articles on propagation by cuttings. These two articles,— "A New-Old Method for Rooting Cuttings of Woody Plants" and "Antitranspirents for Rooting Cuttings" are given in what follows along with reprints of what appeared in the February 1981 issue of the Newsletter.

A "NEW OLD" METHOD for ROOTING CUTTINGS of WOODY PLANTS. Plant propagators discovered many years ago that etiolation of cuttings - that is, keeping the cuttings in darkness for a period of time - can aid their rootings. Recently, Cornell University researchers Nina Bassuk and Brian Maynard have improved on older etiolation techniques, and they report successful rooting of several woody plant species which are otherwise extremely difficult to propagate. As a wrap to exclude light from plant stems, Bassuk and Maynard use "high tech" (but widely available) Velcro fabric, a material with tiny loops on the other side, commonly used as an alternative to buttons and zippers on clothing. Several steps are involved in the Bassuk-Maynard propagation method, as outlined below. Timings are somewhat flexible, and some experimentation may be necessary.

- 1. The mother plant can be grown indoors (for early Rooting) or outdoors. At bud swell, cover part or all of the plant (70% or more shade is best). Watch out for poor ventilation and overheating! New growth will be pale: this is normal. (Note: "Nolite" photoperiod cloth, recently developed to provide total darkness while allowing water penetration and air flow, appears ideal for this use. Its outer surface reflects heat and insulates covered plants. For information on "Nolite" availability and pricing, contact PAK Unlimited, Inc., 3300 Holcomb Bridge Rd., Suite 215, Norcross, GA 30092.)
- 2. When new shoots are long enough to make cuttings (typically 3 to 6 inches), put Velcro bands around them just above where they will be cut off. The bands should be about 1/2 to 3/4 inches wide. Alternatives to Velcro bands are black paper, aluminum foil, and electrical tape, but Velcro works best because it "stays stuck," "gives" a little with stem growth. A single piece of Velcro can be wrapped around a stem or two pieces can be stuck to each other at the ends, with the stem sandwiched between. The Velcro hooks can be used to facilitate application of rooting hormones to the stems: press a band, hook side down, onto a layer of hormone powder (8000 parts per million of indolebutyric acid in talc is recommended), then wrap so the hooks press slightly into the stem.
- 3. Expose the plant to light very gradually "burning" of the pale growth is likely unless shading is removed slowly, over a week or two.
- 4. After two to six weeks (or possibly longer, depending on the species again, experimnetation is necessary, cut off the shoots just below the bands and remove the bands. The bases of the cuttings might

Two strips instead of one enable complete contact to be made with a thin stem.

Stem

Two

Velcro

strips

swollen; some roots might have formed under the bands.
5. Treat the cuttings again with 3000 to 8000 parts
parts per million of indolebutyric acid in talc, and stick

them in an appropriate rooting mix (Bassuk and Maynard use equal parts of perlite, peat and sand). Root under mist, with 77°F (25°C) bottom heat and 16-hour lighting for best results. Good root systems should develop within a month or so.

Woody plants rooted successfully (at least 50% "takes) by the method described above include Acer griseum (paperbark maple), Acer saccharum (sugar maple), Betula papyrifera (paper birch , Castanea mollissima (Chinese chestnut), Pinus sylvesttris (Scots pine), Quercus coccinea (scarlet oak), Quercus palustris (pin oak), Syringa vulgaris 'Charles Joly', 'Charles X', 'Michel Buchner', and 'Mme Lemoine' (lilacs, and Taxus x media. Some species don't need shading prior to banding for successful rooting; these can just be banded when their shoots reach the appropriate size (again, wait for two to six weeks, or longer, before removing the bands and sticking the cuttings). Woody plants rooted by banding without etoliation include Acer platanoides (Norway maple), Acer rubrum (red maple), Carpinus betulus (European hornbeam), Chionanthus virginicus (old-man's beard), Corylus americana (American filbert), Pinus mugo (mountain pine), Pinus strobus (white pine), Pinus thunbergiana (Japanese black pine), Pyrus calleryana (Callery pear), Quercus robur (English oak), Quercus rubra (red oak), and Syringa vulgaris 'Belle de Nancy' and 'Pres. Grevy' (lilacs). Some species don't even need treatment with rooting hormones.

If you try this "new-old" method, its developers would appreciate hearing about your successes and failures. Write to Professor Nina Bassuk, Department of Floriculture and Ornamental Horticulture, Cornell University, Ithaca, NY 14850.

Source: B. Maynard and N. Bassuk, "Researchers Grow Plants Under Cover for Better Cuttings," American Nurseryman 163(7), April 1, 1987, 124-128, 130-131. (American Nurseryman Publishing Co., 111 N. Canal St., Suite 545, Chicago, IL 60606.)

ANTITRANSPIRANTS for ROOTING CUTTINGS.

Horticulturists in Israel report improved rooting of softwood peach cuttings with weekly sprays of an antitranspirant. This should be beneficial for other kinds of cuttings, too, to minimize moisture losses while new roots are developing. Various transpirants are available from garden supply stores; for example, "Wilt-Pruf", available in a convenient aerosol spray can.

Source: Abstract 2394, Horticultural Abstracts 57(4), April 1987, 253-254, (C-A-B International, Farnham Royal, Slough SL2 3BN, United Kingdom.)

From the February 1981 PBA Newsletter:

Propagating plants by cleft grafting the branch of the desired species onto a host plant:— when the graft has taken, the foliage of the host plant is removed to leave the desired species branch growing out from the trunk of different species. Sometimes this may not be successful in that over a number of years, like with some organ transplants in humans, the host plant rejects the material that has grown onto it and the combination dies. It is best to try and get roots to grow from the grafted stock so that the host plant's trunk and root system can be removed. This is also advisable if one wishes to eliminate the scar where the union took place between the scion and the host plant,— considered by the Japanese to be an undesirable feature in a bonsai. Hence propagating by cuttings circumvents the above problem.

The first page that follows is a reproduction of the contents of the pamphlet "How to Root Tree Cuttings" by Dr. Robert C. Hare, Southern Forest Experiment Station, Forest Service, U.S. Department of Agriculture. Dr. Hare's formula for rooting powder is as follows:

Dissolve the following in 40ml anhydrous acetone: 0.5 gm IBA (indolebutyric acid)

0.5 gm PPZ (1-pheny1-3-methy1-5-pyrazolone)

Source: K & K Laboratories, Plainview, NY Transfer solution to 24 gm talc (Baker USP) in a bowl. Stir slurry constantyl in a hood over gentle heat and under a gentle air stream until completely dry. Add 225 gm talc and sift through a stack of sieves to 45 mesh. Grind the





final mixture in a large mortar and sift again.

If all of the above seems to be a lot of effort for anyone not in the propagating field, it should be noted that preparations which are readily accessible for us such as Rootone and Homodin, do not contain as high a concentration of IBA (indolebutyric acid). The tables which follow have a column on the far right listing suggested auxin content or level of IBA. The suggested concentrations ranging from 3 to 16 thousand ppm are much higher than that listed on Rootone, i.e. 570 ppm

The table "Suggested Times for Taking Cuttings is from an article titled "Propagating Woody Plants from Cuttings" taken from the April 1979 issue of Ornamentals South, and written by Carl Whitcomb.

Both the table and the article by Genie Paul appeared in the March 1980 issue of New Orleans Bonsai.

An essential ingredient in helping cuttings to root is to keep them exposed to a moist atmosphere. This is very pointedly stated in Dr. Hare's pamphlet - "Overwatering is detrimental because it keeps the medium saturated, preventing free diffusion of oxygen, and it tends to leach nutrients from the cuttings. The concluding article in the following series by Pete Jones, Northern Virginia, describes how he expanded on a procedure used by Mary Wells to root boxwood cuttings in an aquarium given to her by Mary Holmes Bloomer. He has succeeded in establishing cuttings, which within three weeks have roots one to two inches in length

SUGGESTED TIMES FOR TAKING CUTTINGS

(Each "X" represents approximately the first or last half of a month.)

Broadleaf Evergreens	Jan.	Feb.	Mar.	Apr. Me	ay Ji	une Ju	alv A	Nua .	. Çan	÷ Ω	ndr 33	ou 5	Rooting Time	Suggeste Auxin
Abelia grandiflora								.44	<u> </u>	L. U	J (, 1;	ov. D	PC: (Weeks)	Concentrat
Berberis mentorensis						х	x	ж	xx	x	ξ χ	x x	× 4-6	8
Berberis julianae									xx	X	x x	х х	2-3	8
Buxus spp.									XX XX	XX			6-8	8
Cleyera japoni	ica									XX	: X:	·	6-8	8
Elaeagnus pungens				1.4					хх	х			6-8	8
Euonymus fortunei	хх	хx	ж		x			OX	ХX	XX			6-8	8
Euonymus s japonica	XX							ΟX	ХX	XX	XX	XX	3-4	3
Euonymus							<u> </u>	ox_	хх	ХX	хх	xx	5-6	3
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Ilex cornuta						1 200	x	~	XX	XX	XX		6-7	3
Ilex crenata						XX			XX XX	XX	XX	XX	7-8	8
Ilex opaca					xx						- ^^	XX	6-8	8
Ilex fosteri													6-8	8
Ilex vomitoria Ilex 'Nellie						ХX	30	x	XX	_XX			9-11	8
AL	хх		-						~~				10-12	8
Ilex aquifolium						XX	XX.	K	XX _	XX	ХX	ХX	7-8	3
Lonicera						ЭCX	X	•	ХX	xx	ХX		7-8	
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Bandina					~~	**	XX	_	XX	XX	XX	XX	4-5	-
domestica									ХХ	ХX	ХX	x	7-8	· 3
Osmanthus spp.					-				XX	xx	x		7-8	
Photinia app.		•							XX	хx	х			8
Pyracantha spp.						x	XX		XX	x	^		7-8	8
V Lburnum							XX	:	XX	XX	ХX		8-10 7-8	8
rhytidophyllum			_			_	-	,	ctr				7-6	8
Yucca spp. (root cuttings)				· · · · · · · · · · · · · · · · · · ·					<u> </u>		· ·		7-8	8
Ligustrum	x						ж		οκ	xx				
japonicum								•	.		XX	XX	10-14	
Ligustrum vicaryi						XX	XX	X	DC	ХX	хх	xx	7-8	3
Prunus						ХX	XX	x	x	xx	хx	хx		•
laurocarasu 'Zabeliana' XX	ę												3-4	3
Coniferous								ж	x	хх	хx	xx	6-8	
Evergreens											***************************************		- U	3
Chamaecyparis														
nootkatensis														
Cupressus sempervirens								Ø	t :	ХХ	xx :	xx	10-12	16
Juniperus									3	ХX	хх			40
chinensis													12-16	16
spreaders X														
J. c. Torulosa							XX	XX			χ Σ XX >	CX.	8-10	8
						10							12-16	16

TABLE Continued

(Each "X" represents approximately the first or last half of a month.)

	. Feb. Mar. Apr	. Mas	/ June	- ≘ Julv	Aug.	. Sept	. Oct	NT 0-1	Dea	Rooting Time (Weeks)	Suggested Auxin
Juniperus									-	(MagKS)	Concentration 2
horizontalis XX					ХX	хx	хx	хx	xx	8-9	
J. procumbens					XX		жx	XX	X.	8-9	8
j. conferta						XX	xx	XX		8-9	8
Taxus spp.							200	~~	xx	10-14	. 8
Thuja occidentalis										10-14	16
'Woodward' XX	<u> </u>						xx	xx	xx	7-9	8
Deciduous						··············					
Trees -											
softwood											
Acer palmatum				~							
cornus florida		x	ХX	x						6-8	16
Euonymus		x	XX	x						6-8	16
bungeanea											
Ilex decidua		x	XX	XX						6-8	-8
TYEN GECTORY	-	ХХ	ХX	XX	X .					6-7	8
Magnolia			- Committee Comm								0
soulangeana		x	xx								
Magnolia stellata		x								5-6	16
Prunus sargenti			xx							5-6	16
& others											- -
Pyrus calleryana		x	XX	-XX						4-6	8
& 'Bradford'	*										-
		ХX	XX							5-6	16
Platanus	-			ı ——							
Occidentalis		х	xx	x						4.5	
'ndus		^	AA	•					XX	4-5	16
mondi		•	3535	хx							
Jumus parvifolia		X	XX							5-6	16
		XX	ХХ	XX					***************************************	4-5	30
Morus alba								_	W		
'Pruitless'		x	xx	X.						3-4	8
Maclura				•							· ·
pomifera											
'Pawhuska'		x	ХX							3-4	
Deciduous										J-4 -	. 8
Shrubs										•	
· · · · · · · · · · · · · · · · · · ·									_		
Berberis				•					_		
thunbergi				×	ХX	хx					_
Chaenomeles spp.			x	хx	X	^^				6-8	8
(root cuttings)			•	~~	^					10-12	
duonymus alata			xx	хx	x						
			^^	~~	^					5-7	8
orsythia spp. Agerstroemia			x	ХХ	хх					4-5	3
indica			xx	ХX	χχ	d non	flower	inø (shoo t s)	3-5	ċ
igustrum spp.			x	XX	xx	,,			-100 0 0)	3-5 4-5	0
piraea (sp. fl.)			xx	XX						4-5 4-6	3 3
										→ -0	3
piraea (sum. fl.)			х	ХX	x					5-7	3
yringa spp.			xx I	х						5-7	16
iburnum spp.		:	xx	XX						4-8	8
Weigela spp.										7-0	0
Punica			x	ХХ						4-6	. 8
graminata				x	XX	x	<u> </u>				

Level of IBA in parts per million (ppm) as a talc preparation (3=3,000 ppm; 8-8,000; 16- 16,000 ppm;

PROPAGATION BY CUTTINGS

by Genie Paul Reprinted with permission of South Coast Bonsai Association

Cuttings are parts of living plants cut and treated to generate roots and become new plants. They make especially good bonsai. Cuttings are made from side shoots of vigorous, healthy plants and may come from many different species. Those adaptable for bonsai use are. to name a few: azalea, pomegranate, cypress, olive, juniper, spruce, willow, maple, zelkova, elm, cotoneaster, pyracantha, boxwood, gingko, plum, and chrysanthemum. Pines are not recommended for this technique. Read "Bonsai For Beginners" by H. J. Larkin for more complete list of plants suitable for cuttings.

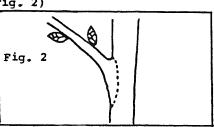
Cuttings may be made three times a year: in spring, when new buds appear; June or July, when further new buds appear; or in September or October.

Procedures and Techniques:

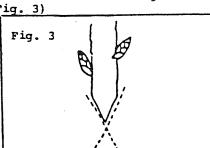
- 1. Cut woody or sucker branches 2 to 5 inches long with at least 3 buds. Remove all leaves except for a few at the end of the branch. Cut more stems than needed, as not all will take. A cutting may have one. two, or several branches.
- 2. Immediately after cutting, put them in a container of lukewarm water to which a small amount of sugar has been added. Leave in sugar for an hour to invigorate the branches.
- 3. Re-cut the end of the stem at a 45-degree angle just below the bottom node. (Fig. 1)



- 4. Prepare a wooden box 3" deep with clean sand and peat moss. Wet soil thoroughly and make holes 1" deep and 2" apart. being sure that drainage is good.
- 5. Dip wet end of cutting in hormone-fungicide powder (Rootone F) and set cutting in hole with at least 2 nodes below surface. The cutting may be set upright or at an angle. If at an angle be sure the cut side is down. Firm soil around cuttings.
- 6. Protect from sun for 10 days or more, then keep in partial shade for several months. A cutting may take a year before it is ready to train and pot. Keep soil moist but not wet and mist leaves often.
- 7. After 3 months apply weak fertilizer twice a month.
- 8. Some plants (azalea, cotoneaster, pyracantha) grow better when the cutting has a "heel" or a part of the main branch left on. Remove a small portion of the older branch with a sharp knife at the base of the cutting. (Fig. 2)



9. A thick-stemmed cutting should be tapered at the end to provide more surface for root growth. (Fig. 3)



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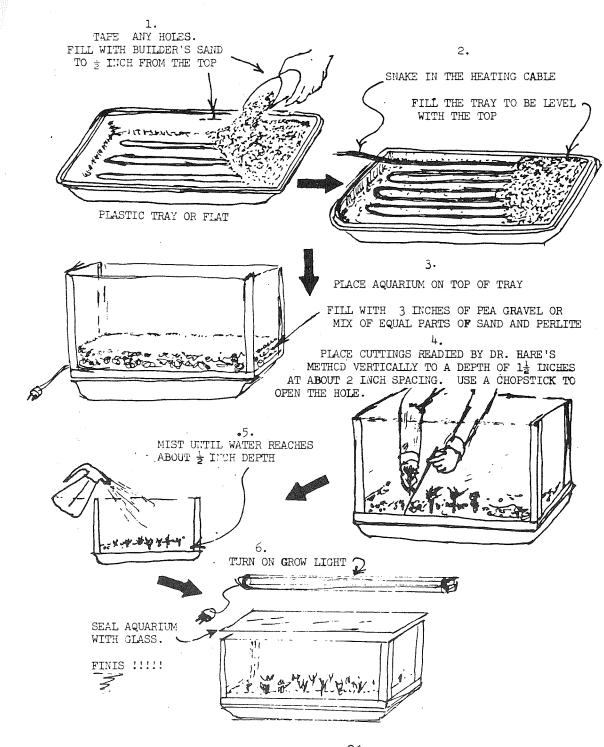
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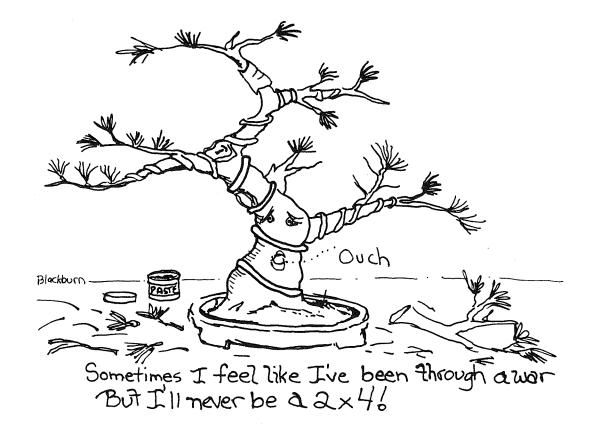
Starting Cuttings In Aquariums

While attending one of Cliff Pottbergs workshops last fall, he told us how he had been successful in rooting JUNIPERUS PROCUMBENS NANA and BUXUS MICROPHYLLA COMPACTA. Since I had tried to root cuttings for years without success. I had given up and was now engrossed in air laying. Cliff's explanation of how the cuttings are prepared and handled seemed easy enough, so I decided to try once more. While helping Mary Weaver style a PROCUMBENS NANA, he said that the branches he had removed would root very easily. All you have to do is put them in a container with a lid and some water. Of course your will need something to keep the cuttings from contacting the water directly. I asked what substance should or could be used? Since Cliff knew that I was curious, he asked me to try different methods. Since I had nothing to loose, I thought I would give it a try. Mary Weaver was kind enough to share with me some of the branches that had been removed. Arriving home, I took a five gallon plastic bucket that I had, -filled it with two inches of pea gravel and one half inch of water. Trying to be smart, I inserted the cuttings in the gravel thinking that more air could reach the area where I wanted roots to develop. I placed the lid on the bucket rubbed my hands together with a grin, and thought success at last. This was in October and I began reading up on cuttings and air laying. GOOD GRIEF! October is cool, low humidity, shorter days. ARRK! I was doomed. Then came a Mellingers catalog and I read through their Greenhouse recommendations. AHHA, bottom heat, high humidity, light, the works, cost too high. There must be a cheaper way I figured. Now then, here are my ingredients for a reasonable greenhouse: For bottom heat, a twelve foot heating cable cost \$8.99. Next, a container so you can watch the progress. I had two ten gallon aquariums which I used. Two plastic seedling flats, the same size as the aquariums. I filled the flats with sand and burried the cable and thermostat one half inch, then placed the aquariums on the flats. At this point, I began to think a little clearer, so I decided to use two inches of pea gravel in one aquarium and two and one half inches of sand and perlite (50% each) in the other aquarium. Having completed my set up two weeks before Christmas, I began looking for cuttings of all kinds. The PROCUMBENS NANA and the BUXUS MICROPHYLLA from the plastic bucket were the first cuttings to go into the aquariums. I put these cuttings into the pea gravel aquarium. Since they had been without light for so long I thought they might be KAPUTT. Much to my surprise, they looked strong and healthy, and had began to callous. I dusted the cuttings with Hormex #30, using a camels hair brush before inserting them into the pea gravel. After all cuttings are inserted, I used a mister to spray about one half inch of water into the aquariums. I used an old piece of glass, cut to the size of the aquarium, for a top.

For a light source, I set a two foot grow light on top of the glass. Once a week I check the heat and humidity. So far a constant 78 degree heat and 85% humidity has been maintained without any work on my part. Every two weeks I lightly mist with water. The PROCUMBENS NANA have developed roots, the ACER PALMETUM and ULMES PARVIFOLIA HOKKAIDO have popped leaves and callouses quite well. I AM ONE HAPPY FELLOW

---Pete Jones---





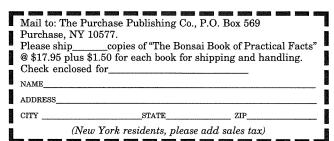
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April 24, 1991

Dear Mr. Koetseh:

I would like to direct your attention to a new series we are broadcasting on Channel 32 called "New Horizons in Bonsai." I would greatly appreciate it if you would be kind enough to include, in your newsletter, the day and time that this series airs. It is currently being broadcast on Saturdays at 8:30 p.m. The series premiered on April 13th and will run for 13-weeks. Thank you for your assistance.

Sincerely,
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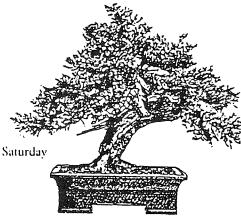
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