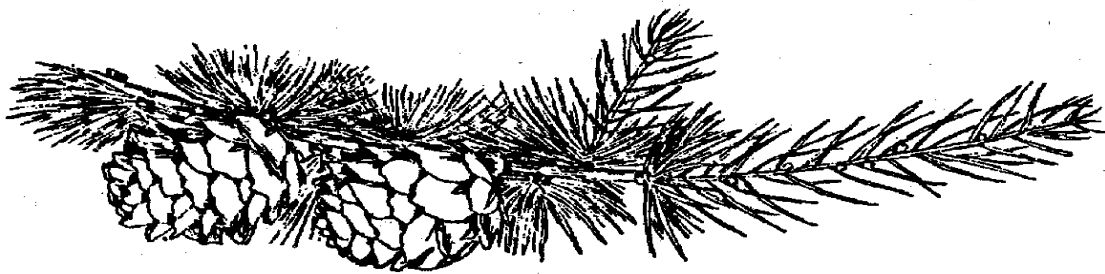


SLIDE LIST

1	Cover Slide			
2	<i>Abies</i>	<i>balsamea</i>	'Piccolo'	Balsam Fir
3	<i>Abies</i>	<i>concolor</i>	'Bryce Canyon'	Concolor Fir
4	<i>Abies</i>	<i>concolor</i>	'Charming Chub'	Concolor Fir
5	<i>Abies</i>	<i>koreana</i>	'Cis'	Korean Fir
6	<i>Abies</i>	<i>koreana</i>	'Blue Magic'	Korean Fir
7	<i>Abies</i>	<i>lasiocarpa</i>	'Logan Pass'	Alpine Fir
8	<i>Chamaecyparis</i>	<i>obtusa</i>	'Lemon Twist'	Hinoki Cypress
9	<i>Chamaecyparis</i>	<i>obtusa</i>	'Emelie'	Hinoki Cypress
10	<i>Chamaecyparis</i>	<i>pisifera</i>	'Hime-Sarara'	Sawara Cypress
11	<i>Juniperus</i>	<i>horizontalis</i>	'Mother Lode'	Creeping Juniper
12	<i>Larix</i>	<i>kaempferi</i>	'Haverbeck'	Japanese Larch
13	<i>Picea</i>	<i>abies</i>	'Horace Wilson'	Norway Spruce
14	<i>Picea</i>	<i>abies</i>	'Pusch'	Norway Spruce
15	<i>Picea</i>	<i>abies</i>	'Little Gem'	Norway Spruce
16	<i>Picea</i>	<i>abies</i>	'Medusa'	Norway Spruce
17	<i>Picea</i>	<i>englemannii</i>	'Cienega'	Engelmann Spruce
18	<i>Picea</i>	<i>glauca</i>	'Blue Planet'	White Spruce
19	<i>Picea</i>	<i>glauca</i>	'Burning Well'	White Spruce
20	<i>Picea</i>	<i>glauca</i>	'Pendula'	White Spruce
21	<i>Picea</i>	<i>omorika</i>	'Golden Midget'	Serbian Spruce
22	<i>Picea</i>	<i>omorika</i>	'Treblitzsch'	Serbian Spruce
23	<i>Picea</i>	<i>omorika</i>	'Pimoko'	Serbian Spruce
24	<i>Picea</i>	<i>orientalis</i>	'Professor Langner'	Oriental Spruce
25	<i>Picea</i>	<i>pungens</i>	'Frieda'	Colorado Spruce
26	<i>Pinus</i>	<i>edulis</i>	'Lil Jake'	Pinyon Pine
27	<i>Pinus</i>	<i>flexilis</i>	'Eeny Weeny'	Limber Pine
28	<i>Pinus</i>	<i>koraiensis</i>	'Golden Eye'	Korean Pine
29	<i>Pinus</i>	<i>mugo</i>	'Jakobsen'	European Mountain Pine
30	<i>Pinus</i>	<i>parviflora</i>	'Catherine Elizabeth'	Japanese White Pine
31	<i>Pinus</i>	<i>strobus</i>	'Courtland Rose'	Eastern White Pine
32	<i>Pinus</i>	<i>sylvestris</i>	'Bennett Compact'	Scots Pine
33	<i>Thuja</i>	<i>occidentalis</i>	'Mini Spiral'	American Arborvitae
34	<i>Tsuga</i>	<i>canadensis</i>	'Little Joe'	Canadian Hemlock
35	<i>Tsuga</i>	<i>canadensis</i>	'Mt. Rainer'	Canadian Hemlock
36	Things you will need to make a trough.			
37	Mix 1 part cement			
38	1 1/2-part perlite			
39	. 1 1/2-part sphagnum peat moss			
40	Find somebody to mix it for you.			

SLIDE LIST			
41	Insert drainage holes.		
42	See that you have enough.		
43	Take drainage pipes out before it gets dry.		
44	Other ways to make troughs..		
45	Winter storage		



RESOURCES

American Conifer Society: Quarterly Bulletin: Published since 1983. Provided with membership in the American Conifer Society. Limited back issues available.

Gardening with Conifers: Adrian Bloom, 2001. Firefly Books

Conifers: van Gelderen and van Hoey Smith, two-volume set, 1996. Timber Press.

Small Conifers for Small Gardens Robert L. Fincham 2011 Coenosium Press

Conifers for Gardens -An Illustrated Encyclopedia: Richard Bitner, 2007 Timber Press.

Conifers of the World The Complete Reference: James E. Eckenwalder 2009 Timber Press

Pocket Guide to Conifers: Richard Bitner, 2010 Timber Press

Designing with Conifers: Richard Bitner, 2011 Timber Press.

Manual of Woody Landscape Plants: Dirr, 5th Edition, 1998. Stipes Publishing Company.

A Natural History of Conifers: Aljos Farjon 2008 Timber Press

Lives of Conifers: A comparative account of the Coniferous Tree: Graham R. Powell 2009, Fithenry & Whiteside Ltd.

A Garden of Conifers: Obrizok, 2nd Edition, 1994. Timber Press.

Dwarf and Unusual Conifers Coming of Age: Cutler, 1997. Barton Bradley Crossroads.

Manual of Cultivated Conifers: Krussmann, 2nd Edition, 1985. Timber Press.

The World Checklist of Conifers: Welch and Haddow, 1st Edition, 1993. Landsman's Bookshop Ltd.

Conifers for Your Garden: Bloom, 1972. Floraprint, Ltd.

Growing Conifers: Thomas, Martin, and Tripp, 1997. Brooklyn Botanic Garden

Native and Cultivated Conifers of Northeastern North America: Cope, 1986. Cornell University Press.

The Cultivated Hemlocks: Swartley, 1984. Timber Press.

Conifers and Heathers: Bloom, 1989. Floraprint, Ltd.

Conifers: Mikolajski, 1997. Anness Publishing Ltd

Encyclopedia of Conifers Royal Horticultural Society: Aris G. Auders & Derek P. Spicer

GARDENS & ARBORETUMS

NORTHEASTERN REGION

Arnold Arboretum, Jamaica plain, MA

Bartlett Arboretum, University of Connecticut, Stamford, CT

Arsenal at Central Park NY, NY "Reference Garden"

Wellesley College Botanic Gardens 106 Central Street Wellesley, MA "Reference Garden"

Graver Arboretum 1581 Bushkill Center Rd. Bath PA "Reference Garden"

Longwood Gardens, Kennett Square, PA

Morris Arboretum, Philadelphia, PA

The New York Botanical Garden, Bronx, NY

United States National Arboretum, 'The Gotelli Collection of Dwarf Conifers', Washington, DC

SOUTHEASTERN REGION

The Gardens of the Big Bend, FL. "Reference Garden"

Atlanta Botanical Garden, Atlanta, GA "Reference Garden"

J. C. Raulston Arboretum, No. Car. St. University, Raleigh, NC "Reference Garden"

Armstrong State Reference Garden, GA "Reference Garden"

State Botanical Garden of Georgia "Reference Garden"

Smith-Gilbert Gardens GA "Reference Garden"

Baker Arboretum, KY "Reference Garden"

Hatcher Garden and Woodland Preserve Spartanburg - S. C. "Reference Garden"

Moore Farms Botanical Garden - Lake City, South Carolina "Reference Garden"

South Carolina Botanical Garden "Reference Garden"

East Tennessee State University Arboretum "Reference Garden"

Memphis Botanic Garden – TN "Reference Garden"

University of Tennessee Gardens TN "Reference Garden"

West Tennessee Research and Education Center Gardens – Jackson TN “Reference Garden”
Al Gardner Memorial Conifer Garden - Goochland, Virginia, “Reference Garden”
Lewis Ginter Botanical Garden VA “Reference Garden”
Norfolk Botanical Garden VA “Reference Garden”
State Arboretum of Virginia - Clarke County, Virginia “Reference Garden”

CENTRAL REGION

Bickelhaupt Arboretum, ‘The Heartland Collection of Dwarf and Rare Conifers’, Clinton IA
“Reference Garden”
The Iowa Arboretum 1875 Peach Ave. Madrid, IA
Dubuque Arboretum and Botanical Gardens, Dubuque, IA
University of Iowa Gardens “Reference Garden”
Chicago Botanic Garden, Glencoe, IL
Hidden Lake Gardens, MSU, ‘The Harper Collection of Dwarf and Rare Conifers’, Tipton, MI
“Reference Garden”
Minnesota Landscape Arboretum, Chanhassen, MN
Powell Gardens 1609 N.W. U.S. Highway 50 Kingsville MO “Reference Garden”
Missouri Botanical Gardens, St. Louis,
Morton Arboretum, Lisle IL
Secrest Arboretum, Wooster, OH
Stanley M. Rowe Arboretum, Cincinnati, OH “Reference Garden”
The Dawes Arboretum, Newark, OH “Reference Garden”
The Holden Arboretum, Kirtland, OH
Green Bay Botanic Garden “Reference Garden”
University of Wisconsin, Longenecker Garden, Madison, WI “Reference Garden”

WESTERN REGION

Denver Botanic Garden, Denver, CO “Reference Garden”
Hoyt Arboretum, Portland, OR “Reference Garden”
Kubota Gardens, Seattle, WA
Mendocino Coast Botanical Gardens, Fort Bragg, CA “Reference Garden”
Quarryhill Botanical Garden 12841 Highway 12 Glen Ellen CA “Reference Garden”
Strybing Arboretum and Botanical Gardens, San Francisco. CA
San Francisco Botanical Garden 1199 9th Avenue San Francisco CA “Reference Garden”
South Seattle College 6000 16th Avenue SW Seattle WA “Reference Garden”
Oregon Gardens, Silverton OR “Reference Garden”

DWARF CONIFER NURSERIES

***American Conifer Society Member**

HERMSEN NURSERY *

Dennis & Nancy Hermsen

11463 Jamesmeier Road

Farley, IA. 52046

Phone: (563) 744-3991

Call first for appointment

EVERGREEN GARDENS *

Pam Maurer emailpam@evergreen-gardens.com

6036 George Washington Carver

Ames, Iowa 50010

Phone: (515) 232-7633 Mobile (515) 460-3056

www.evergreen-gardens.com

HEARTLAND GARDEN *

Randy Dykstra

910 Middle Rd.

Fulton, IL 61252

Phone: (815) 589-2004

Call first for appointment

LASTING BEAUTY LANDSCAPING *

Jeff & Lora Rathje

P. O. Box 22

McCausland, IA. 52758-0022

Phone: (563) 225-2670

Call first for appointment

CONIFER KINGDOM *

6450 Brush Creek Dr. NE

(Box 1581)

Silverton, OR 97381 503-874-4123

www.coniferkingdom.com

QUILTED GARDENS & NURSERY

1895 East Army Post Road

Des Moines, IA. 50320-1817

Phone: (515) 288-6768

www.quiltedgardens.com

STONEWALL NURSERY *

Peter Moersch

763 US Highway 14

Oregon, WI. 53575

Phone: (608) 835-8590

stonewallnursery@worldnet.att.net

RICH'S FOXWILLOW PINES NURSERY *

Richard and Susan Eyre

11618 McConnell Road
Woodstock, Illinois 60098

Phone: (815) 338-7442

<http://www.richsfoxwillowpines.com>

GEE FARMS NURSERY & LANDSCAPING *

Gary & Kaye Gee

14928 Bunkerhill Rd.
Stockbridge, MI. 49285

Phone: (517) 769-6772 or 1-800-860-BUSH

<http://www.geefarms.com>

STANLEY & SONS NURSERY *

11740 SE Orient Drive Boring, OR 97009

Office (503) 663-4391 • Fax (503) 663-6672

conifer@teleport.com

GARY WHITTENBAUGH *

FRANMARA GARDEN

625 3RD AVE. S.W.

Oelwein, IA. 50662

Phone: 319-283-3050

franmara@mchsi.com

Contact me for more information on conifers
or the AMERICAN CONIFER SOCIETY

SPECIALTY NURSERIES

THESE ARE SOME NURSERIES – ALL WITHIN A DAYS DRIVE OF THE OELWEIN AREA AND MAIL ORDER SOURCES

THE FLOWER FACTORY

Large selection (over 2500) varieties of perennials, rock and trough garden plants.
4062 County RD A Open Apr. 21-Oct 10
Stoughton, WI. 53589 (608) 873-8329
Weekdays: 9AM-7PM Weekends: 9AM-6PM
<http://theflowerfactorynursery.com>

PLANTS OF THE ROCKS

Another place for rock garden and trough garden plants.
14012 Hwy. 136
Onslow, IA. 52321-7564
(563) 485-3483 David Lanpher - Call first

K & K GARDENS

Nice selection of perennials, annuals and woody plants. They also have some conifers.
108- East Wilbur St.
Hawkeye, Iowa 52147
(563) 427-5373

IN THE COUNTRY

Specializing in hostas, water plants, & country crafts. Smaller size conifers good for troughs and rock gardens.
2587 Quasqueton Diagonal Blvd.
Independence, IA. 50644
(319) 327-0927

ARROWHEAD ALPINES

Mail order, Specializing in Rock Garden, & Perennials.
P.O. Box 857 Alpine, conifers,
1310 N. Gregory RD.
Fowlerville MI. 48836
Ph. (517) 223-3581
arrowheadalpines.com

GARDENS OF RICE CREEK

Betty Ann Addison
Nursery Hours: Every Saturday, May through Labor Day, 9am to 4pm
1315 66th Ave N.E.
For Directions Call (763) 242 5009
Minneapolis, MN 55432
contact@gardensofricecreek.com

MAIL ORDER HEATHER SPECIALST

Mail order: A large selection. They also have *Cassiope*, *Phyllodoce* & x *Phylliopsis*

Phone is 360-427-5318 or 800-294-3284
631 e pickering road shelton, wa 98584
<http://www.heathsandheathers.com/>

SUNSCAPES Rare Plant Nursery

Mail order:

Some drought tolerant Alpine and trough plants. Has quite a selection of Daphne's and cactus.
4028 Nature Center Road **Pueblo, Co. 81003**
<http://www.sunscapes.net/>

WRIGHTMAN ALPINES

Mail order: **They have a lot of Daphnes**

St. Andrews New Brunswick
<http://www.wrightmanalpines.com/>

BLOOM RIVER GARDENS

Mail order: Trees and Shrubs, Replaced Greer Gardens
39744 Deerhorn Road Springfield, OR 97478
Phone (541) 726-8997
<http://www.bloomriver.com/>

HYPERTUFA HOW-TO

Supplies

- Straight Portland Cement
- Spaghnam Peat Moss
- Perlite
- 1/2" conduit cut into 3 1/2" links for drainage holes
- Garbage bags
- Chicken Wire for reinforcing
- Rubber Gloves
- Disposable Mask

Find a place to work in your garage where you can leave your trough for three days without moving it. Work on a garbage bag covered surface that is sturdy.

The mold that is used should have tapered sides, bowls, dishpans, etc. These are the easiest to pull out. Don't use anything with handles. You will be putting the cement mixture on the outside of the mold. Form the chicken wire loosely around your mold. Then remove the molded chicken wire and set aside

Now encase your mold in a garbage bag and you are ready for the cement mixture.

Making the cement mixture:

Sift the spaghnam peat moss. I use a 1/4" hardware cloth screen. Need to wear a mask (as there is a lot of debris in the air when this is done.) Sifting the peat moss gets rid of the large particles that would decay in the trough and leave big holes.

Mix 1 part cement, 1 1/2-part perlite, and 1 1/2-part spaghnam peat moss thoroughly. Gradually add water until the mixture is the consistency of cottage cheese.

Wearing rubber gloves, pat the cement mixture on and around the entire garbage bag enclosed mold, making sure it is evenly coated about 1" thick. Then put your chicken wire frame on the cemented mold. Stick your conduit pieces in randomly into the chicken wire in the bottom of the mold for drainage.

Then add about 2" more of cement, covering the chicken wire and taking care not to cover the conduit completely. To make this easier, make a T stick pin of wire 3" long so that you can stick this in and test the depth of the cement. Make sure you have an even amount of cement all around your mold. At this point you should not move your molded planter for 3 days.

Let dry for about 3 hours, then take the conduit pieces out. Might need to use pliers to accomplish this. Mold should set for about 3 days in a garage undisturbed and then unmold. The mold should slip out and then the garbage bag can be pulled off. Can use a trowel to rough up the top of your planter so it looks more natural. It is much easier to do at this step than later.

Let the planter cure in garage for another 3 days. Put your planter in a shaded area out doors and let cure slowly for several weeks. This is done so that the free lime will be leached out by rain. Soaking the hardened planter in a solution of potassium permanganate for two or three days will also neutralize the alkali. Plant with a swift draining potting mixture. Dwarf Conifers and rock garden plants work great in these troughs.