Volume 7, Issue 2

Arboretum Notes

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Improvement Projects



Tree Labels

A new collection of labels have been installed on selected trees. The black labels clearly identify the tree's common name, scientific name, area of origin, and scientific family. Larger specimen trees have trunk labels and smaller trees were installed with limb tags. The spring assembly, pictured behind the bottom of the label, prevents the growing trunk from absorbing the bolt. This attractive Paperbark Maple, (Acer griseum) is from the Aceraceae family and originates from Western China. See this issue's insert, "Winter Beauty Treasure Hunt", and test your plant identification skills when visiting this winter at the Acton Arboretum.

The Friends of the Acton Arboretum have donated \$11,800 in trail improvements to the Town of Acton. Over the past spring and fall, the main loop in the formal area by the butterfly garden and herb garden has been widened to five feet, stone dust applied up to a depth of six inches and cobblestones installed to edge the trail. Dan Lenox's landscaping firm did the construction. The trail was redesigned to be handicapped accessible. The cobblestones provide a physical boundary for the visually handicapped.



Trail Resurfacing

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Red Leaves of Autumn —Window-dressing or parasol?

When autumn comes in Massa- protect remaining green pigments chusetts and other northern states, from sunburn. Because they could- of energy as it begins to enter winwe expect to see our trees bathed n't figure out how this actually ter sleep? Energy is sorely needed in brilliant reds and yellows. Why happened, their sunscreen idea to pull nutrients like nitrogen and do trees put on a light show just faded and was discarded. Later phosphorous out of aging leaves when the growing season is end- scientists learned that these red into the part of the tree that can ing? We know that chlorophyll, a pigments don't absorb ultraviolet withstand winter temperatures. green pigment in leaves, gathers radiation well and are not an effec- Evidence continues to build that light energy and turns it into food tive sunscreen in the usual sense. energy to fuel growth. For plant scientists, yellow colors of autumn Lee, now at Harvard University, against light overdose in leaves are far easier to understand than thought there might be some truth nearing the end of their growing brilliant reds. In fact, the yellow to the sunscreen idea and set out to season. Scientists are still discovcolor has been there all along, learn just what benefit such costly ering benefits that red pigments When summer is over, chlorophyll red coloration might have for the bestow, such as acting as a leaf begins to break down, and the yel- tree. After trying various ideas, he antifreeze on frosty fall nights and low color that has been hidden and a fellow scientist, Kevin signaling that a tree has good deshines through. Reds, however, Gould, learned one thing: aging fenses against fall-active predatory don't hang around all summer. A leaves of autumn are better at cap- insects like aphids. The question leaf is coming to the end of its life turing sunlight than they are at us-remains: if red pigments are so in the fall, and yet it calls out the ing that sunlight to make food. In great, why don't all leaves turn reserves to go into a burst of fact, when more sunlight is ab- red? manufacturing to produce the pig- sorbed than the leaf can use, food ments that give us spectacular dis- production drops. Chilly fall tem- Source: "Why Turn Red?" by plays of red autumn leaves.

up when you've got nowhere to Rather than protecting the leaf 265. go? Early plant biologists thought from sunburn, red pigments make perhaps red pigments were being its failing food production mechamanufactured as a sunscreen to nisms more efficient.

peratures slow these chemical re- Susan Milius. Science News, Octo-But... why? Why get all gussied actions, increasing the imbalance. ber 26, 2002, vol. 162, pp. 264-

Why should a tree need a burst the flush of red autumn color in However, one scientist, David colder climates is a safety measure

Gift of New Benches

The Friends of the Acton Arboretum acquired five new wooden benches for the Arboretum. Two were donated, as noted below, and the others funded by the Friends of the Acton Arboretum. They were placed in the following locations:

- To the right of the butterfly garden
- Near the top of the rise by the apple grid in the main lawn area, donated by Sid Levin in memory of his wife, Ilene Atkins Levin
- Along the left side of the main lawn loop, parallel to Taylor Road
- Across from the sun pond, donated by the Acton-Boxborough High School Class of 1960
- At the end of the footbridge, looking toward the hosta garden

Tribute to Dr. Richard A. Howard

tum, professor of Botany at Har- summer, as an horticultural ex- was closed after his retirement, he nized expert of plants of the West tural Society Show for judging. Indies. Sandy Bayne recently recalled how he became involved a great deal of physical labor to ery. A prominent example of his with the Acton Arboretum. Sandy tame the property, which had generous plant contributions is the agreed that it was serendipity poison ivy vines with trunks of crabapple allée. when she and Bev LaFoley, Rad- enormous girth choking the grid leads you by the daylily collection cliffe Landscape Design students, of apple trees. Many observed an to the hosta garden to the left and contacted the Arnold Arboretum elderly gentleman in uniform swale plantings of shrubs and for help with founding the Acton weed whacking in the July heat, roses to the right. He was gener-Arboretum. Director Peter Ash- This was perhaps not so incongru- ous in other ways to the commuford told her that Dick had re- ous, if they knew of Dick's field nity of Acton, giving lectures to cently retired and moved to Acton work in the West Indies. In fact, the Senior Center from his collecand suggested asking him for he received a Legion of Merit for tion of 65,000 slides. To honor his help. Dick responded with char- developing survival manuals for enormous contributions. acteristic generosity and set off to GIs in the island jungles of the Friends of the Acton Arboretum do a plant survey of the land. He South Pacific. During his Navy are dedicating the new tree identideveloped a catalogue of dried career, he set up a kitchen and fication labels to Dr. Richard A. specimens, which Sandy noted gave cooking sessions to generals Howard. It seems a fitting tribute are in the collection of the Har- who were taught how to eat tarro, to the man who helped acquire the vard Herbarium today. In an ex- palm cabbages and lobsters.

bered by other founders of the humor, Sandy told how he entered return, he resided at the Case Es-Acton Arboretum, passed away a sample of duckweed, the tiny tates in Weston, surrounded by on September 18, 2003. He was a green plant that dominates the beautiful and choice trees and Director of the Arnold Arbore- surface of the farm ponds in the shrubs. When the Case Estates vard, a prolific author and recog- hibit to a Massachusetts Horticul- arranged to have many trees

Dick Howard, fondly remem- ample of his botanically based. As director of the Arnold Arbobrought into the collection of the Not only a man of letters, he did Acton Arboretum's original nurstree collection years ago.

Share with men	as and neighbors
Membership Application	Commemorative gifts, honoring
Name	marriages, births, deaths or other special dates are gratefully ac-
Address	cepted and recorded in a commemorative listing.
Telephone	
Type of Membership New \$15 individual Renewal (Check \$25 Family	k mailing label for last renewal date)
\$40 Supporting	Membership Benefits for Friends
\$100 Corporate	A Spring and Fall newsletter
Please mail to:	Seasonal walks, talks and workshops
Friends of the Acton Arboretum	Civic pride in a special gift of
P.O. Box 2607	land used for enjoyment and

Acton, MA 01720

Commission. Acton Natural Resources Department and the Acton Conservation The Acton Arboretum is town conservation land managed by the

Friends of the Acton Arboretum, Inc. P.O. Box 2607, Acton, MA 01720

Board of Directors

Membership Secretary Publicity and Nursery Vice-President President Treasurer Tree Labels iason Julie Coop Cathy Fochtman Joan Yatteau Darryl Sullivan **Brewster Conant** Whit Moretti Tom Tidman Cathy Hatfield yatteau@hbs.edu

Our Mission

Education

fochtman@verizon.net

Cathy Fochtman

succession, and, in an era of decreasing public funds and natural of 1984, as from time to time they are amended. under the provisions of Chapter 180 of the General Laws of generally to do all the things permitted to non-profit organizations resources, about conservation, effective horticultural practice; and the Arboretum property, about the process of wetland and field environmental, horticultural, geological and historical qualities of Arboretum; to educate the community about the unique Massachusetts and Section 501(c)(3) of the Internal Revenue Code Acton for the development and maintenance of the Acton To raise and donate funds, materials and services to the Town of

Arboretum Notes produced by Cathy Fochtman and Joan Yatteau

