



Zelkova serrata. Seen to the right are *Picea pungens* 'Glauca' and *Abies concolor*.

Little Friars Arboretum

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MERELENE DAVIS writes about the accidental creation of her arboretum in the Chiltern Hills of Buckinghamshire, north of London.

When I wrote "The Renovation of an Arboretum" for the *IDS Yearbook 1987* I hardly thought one day I would be writing about starting one of my own and accidentally too! Priestfield had been brought to my attention when in 1980 the late great dendrologist Alan Mitchell, knowing that I was involved with a local tree group asked me if I could help him find an old arboretum in the Chilterns where he had measured the trees about 20 years previously. When we did find this five acre site about a year later, the collection was quite derelict with just 97 specimens remaining and as described in the article, the owners sought my help to renovate it and named it Priestfield. When I finally stepped down as Hon Curator in 2005 there were over 200 specimens and a group of volunteers, the Friends of Priestfield Arboretum, who still look after it.

Little Friars began for me in 1992 when there was a threat of development opposite our home, so like other neighbours I bought a hectare (2.4 acres) of land to protect the outlook and planted the majority of it with Christmas fir trees, to recoup the cost. Meanwhile, when I was obtaining trees for Priestfield, in an impromptu moment I would often buy another one for myself and then sometimes found I could not find a suitable spot in our garden and so it ended up where a Christmas tree had been sold! On a visit to New England in 2004, we visited Christmas tree plantations. Like us, they sold direct to the public

and encouraged people to select and tag their trees early (usually over the Thanksgiving holiday) then collect a few days before Christmas. We noticed that their spacing between rows of trees was more than double ours. In our case the fact that we are in a narrow lane with no car parking facilities, this select (from September onwards) and tag method, helped relieve soil compaction from so many feet in more adverse winter conditions as well as the sales pressure of the busy weekends in December. Thus I felt the wider row spacing we had seen in America would encourage more people to do this and resolved not to replant alternate rows and so eventually widen the space between rows. Another advantage I hoped, that this would encourage more field biodiversity and so help combat the aphid problem. In 2009, the Christmas tree venture showed an overall profit (apart from the value of our labour!) so we held a sale of trees in the alternate rows, and after Christmas finally brought in contractors to remove the stumps. Customers remarked upon the specimen trees which had become more evident, and in counting them I found there were more than 100 different taxa. A local magazine wrote an article entitled "The Accidental Arboretum" and it was listed on the website

Andrew and Merelene Davis with *Wollemia nobilis* (left) and *Cedrus brevifolia* (right).

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of 'Special Trees and Woodlands of the Chilterns, under this title too.

The soil is an unenviable mix of clay with flints laid down in the Cretaceous Period and occasional chalk pockets are encountered on this north facing slope of a valley that runs west to east so it is rather a wind tunnel for the prevailing wind. Unlike Priestfield, only about five miles away, it is unsheltered which did not matter when growing just Christmas trees but in 2012 when we had a -19.6 °C frost, my *Wollemia nobilis* died but that at Priestfield survived. Rather belatedly I am putting in some trees for shelter but I am constrained in that I do not want to plant tall growing trees in front of neighbours' homes so that side of the plot remains Christmas trees and income from sales can contribute to the maintenance costs. It is actually the top southern boundary where drying summer winds come that I feel do the most damage—sometimes deposits of Saharan sand reach here in the Chilterns and since I began looking after trees, I have noticed, on average, the decline in summer rainfall. In these somewhat Spartan conditions at Little Friars, the trees that have surprised me with their

List of taxa grown at Little Friars

<i>Abies balsamea</i> var.	<i>Cedrus deodara</i>	<i>Drimys winteri</i>
<i>phanerolepis</i>	<i>Celtis australis</i>	<i>Elaeagnus</i> × <i>ebbingei</i>
<i>fraseri</i>	<i>Cephalotaxus harringtonia</i>	'Limelight'
<i>koreana</i>	<i>Cephalotaxus harringtonia</i>	<i>Elaeagnus</i> × <i>ebbingei</i>
<i>lasiocarpa</i>	'Fastigata'	<i>Elaeagnus pungens</i>
<i>nordmanniana</i>	<i>Cercidiphyllum japonicum</i>	'Hosuba-fukurin'
<i>Acer cappadocicum</i> 'Aureum'	<i>Cercis canadensis</i>	<i>Eucommia ulmoides</i>
<i>dauricum</i>	'Forest Pansy'	<i>Eucryphia</i> × <i>nymansensis</i>
<i>griseum</i>	<i>Chamaecyparis lawsoniana</i>	'Nymansay'
<i>negundo variegatum</i>	'Pearly Swirls'	<i>Euonymus hamiltonianus</i>
<i>palmatum</i>	<i>nootkatensis</i> 'Jubilee'	<i>Euptelea polyandra</i>
'Inaba Shidare'	<i>pisifera</i> 'Filifera Aurea'	<i>Exochorda serratifolia</i>
<i>Aesculus</i> × <i>carnea</i> 'Briotii'	<i>Chionanthus virginicus</i>	'Snow White'
<i>Amelanchier lamarckii</i>	<i>Choisya ternata</i>	<i>Fagus sylvatica</i>
<i>Aralia elata</i>	<i>Cladrastis kentukea</i> (C. <i>lutea</i>)	'Dawlick Gold'
<i>Araucaria araucana</i>	<i>Cornus kousa chinensis</i>	<i>Garrya elliptica</i>
<i>Arbutus unedo</i>	<i>Cornus mas</i>	<i>Ginkgo biloba</i>
<i>Aristolotelia chilensis</i>	<i>Corylus avellana</i> 'Contorta'	<i>Gleditsia tricanthos</i>
<i>Athrotaxis laxifolia</i>	<i>Cotoneaster salicifolia</i>	'Sunburst'
<i>Betula albo-sinensis</i>	'Rothschildianus'	<i>Gymnocladus dioica</i>
<i>alleganiensis</i> (B. <i>lutea</i>)	<i>Crataegus monogyna</i>	<i>Hoheria sexstylosa</i>
<i>ermanii</i>	<i>Crataegus prunifolia</i>	'Stardust'
<i>utilis</i>	<i>Cryptomeria japonica</i>	<i>Hovenia dulcis</i>
<i>yunnanensis</i>	<i>japonica</i> 'Rasen-sugi'	<i>Idesia polycarpa</i>
<i>Buxus sempervirens</i>	'Sekkan-sugi'	<i>Ilex crenata</i> var. <i>fukasawana</i>
<i>Buxus sempervirens</i>	<i>Cunninghamia lanceolata</i>	<i>Ilex aquifolium</i>
'Elegantissima'	<i>Cydonia oblonga</i>	'J. C. van Tol'
<i>Calocedrus decurrens</i>	<i>Daphniphyllum himalayense</i>	<i>Ilex aquifolium</i>
'Aureovariegata'	subsp. <i>macropodium</i>	'Madame Briot'
<i>Catalpa bignonioides</i>	<i>Davidia involucrata</i>	<i>Juniperus communis</i>
'Aurea'	<i>Decaisnea fargesii</i>	<i>Succica</i> Group
<i>Cedrus brevifolia</i>	<i>Diospyros lotus</i>	<i>recurva</i> var. <i>coxii</i>

vigour are *Malus hupehensis*, the *Prunus* species generally, *Parrotia persica*, *Phellodendron chinense* and particularly *Phellodendron amurense* var. *sachalinense* and a now magnificent *Zelkova serrata*, which in the early days had to be propped against the prevailing wind. The *Zelkova*, from the same source and planted at the same time at the sheltered site at Priestfield is a miserable thing and its *Phellodendron* only a little better. In contrast, the *Pseudolarix amabilis* and the *Diospyros lotus* thrive there but not here, at Little Friars. *Betula ermanii*, I expected to stand up to the prevailing wind and has not disappointed whilst maintaining a graceful shape.

With a pH just acid side of neutral I have been able to get away with planting trees like *Nyssa sylvatica*, *N. sinensis* and *Stewartia pseudocamellia* as well as conifers like *Sciadopitys verticillata* with an annual application of acid plant fertilizer and sometimes iron sequestrene and of course, 20 years of Christmas tree growing had acidified the soil to some extent so we have even had fungi like the attractive fly agaric, *Amanita muscaria*, appearing. As

<i>sabina</i> 'Tamariscifolia'	<i>Picea abies</i>	<i>suber</i>
<i>Koeleruteria paniculata</i>	<i>brevieriana</i>	<i>Ruscus aculeatus</i>
<i>Laburnum alpinum</i>	<i>omorika</i>	<i>Salix babylonica</i> 'Tortuosa'
<i>Larix kaempferi</i>	<i>pungens</i> Glauca Group	<i>Sarcococca hookeriana</i>
<i>Ligustrum japonicum</i>	<i>Pinus cembra</i>	var. <i>digyna</i>
'Rotundifolium'	<i>koraiensis</i>	<i>Saxegothea conspicua</i>
<i>Ligustrum lucidum</i>	<i>pinia</i>	<i>Sciadopitys verticillata</i>
<i>Liquidambar formosana</i>	<i>sylvestris</i>	<i>Sequoia sempervirens</i>
<i>Liriodendron chinense</i>	<i>wallichiana</i>	<i>Sorbus</i>
<i>Liriodendron tulipifera</i>	<i>Platycladus orientalis</i>	<i>alnifolia</i>
'Fastigiatum'	<i>Podocarpus cunninghamii</i>	<i>cashmiriana</i>
<i>Magnolia stellata</i>	(<i>P. hallii</i>)	<i>commixta</i> 'Embley'
<i>Malus hupehensis</i>	<i>Podocarpus salignus</i>	'Joseph Rock'
<i>Mespilus germanica</i>	<i>Populus alba</i>	<i>Stewartia pseudocamellia</i>
<i>Metasequoia</i>	<i>nigra</i> var. <i>betulifolia</i>	<i>Taxodium distichum</i>
<i>glyptostroboides</i>	<i>tremula</i>	'Peve Minaret'
<i>Microbiota decussata</i>	<i>Prunus</i>	<i>Taxus baccata</i>
<i>Microbiota decussata</i>	<i>lusitanica</i>	<i>Taxus brevifolia</i>
'Gold Spot'	<i>lusitanica</i> 'Variegata'	<i>Tetradium daniellii</i>
<i>Morus alba</i>	'Okamé'	(syn. <i>Euodia daniellii</i>)
<i>Morus nigra</i>	'Pandora'	<i>Tetracentron sinense</i>
<i>Nyssa sinensis</i>	<i>sargentii</i>	<i>Thuja koraiensis</i>
<i>Nyssa sylvatica</i>	× <i>subhirtella</i>	<i>Thuja plicata</i>
<i>Osmanthus delavayi</i>	'Autumnalis Rosea'	<i>Thujopsis dolabrata</i> 'Aurea'
<i>Osmanthus yunnanensis</i>	'Taihaku'	<i>Tilia henryana</i>
<i>Parrotia persica</i>	<i>Pseudolarix amabilis</i>	<i>Torreya nucifera</i>
<i>Phellodendron amurense</i>	<i>Pseudotsuga menziesii</i>	<i>Trochodendron aralioides</i>
<i>Phellodendron chinense</i>	<i>Ptelea trifoliata</i> 'Aurea'	<i>Tsuga heterophylla</i>
<i>Phillyrea latifolia</i>	<i>Pterostyrax hispida</i>	<i>Wollemia nobilis</i>
<i>Photinia</i> × <i>fraseri</i>	<i>Quercus frainetto</i>	<i>Zelkova serrata</i>
<i>Phyllocladus trichomanoides</i>	<i>ilex</i>	
var. <i>alpinus</i>	<i>rubra</i>	

Plus 33 British Native Trees

the site is small, this is never going to be a beautiful, grand collection but I am content in collecting as interesting a range of genera of trees as possible which often means they are smaller and slower growing ones too. As we have groups visiting who are not always keen dendrologists, I like to have trees with an interesting background or story attached, such as *Prunus* 'Tai Haku' and I recently acquired *Celtis australis* which delightfully is the lotus tree of

Exochorda serratifolia 'Snow White' in front of *Abies nordmanniana*.

Photograph © Caroline Boisset



Homer who described in *The Odyssey* how those who eat the fruits, forgot their longing to return home. For such groups, I ask for a donation and they bring a cheque made out to whatever charity I've decided to support that year.

I have found it is good to encourage visitors as it is an incentive to me to remember what each tree is—an increasing problem for those of us growing older. I often hear myself saying “Oh I used to know that!” Also, one learns from others with similar interests as when the Bucks Trees Club visited this year, a member reassured me not to worry about red needle blight on my stone pine, *Pinus pinea*, spreading to my Arolla, Bhutan or Korean pines, *Pinus cembra*, *P. wallichiana*, *P. koraiensis*, as the disease only affects two-needle pines. So many tree interest groups, like many other local societies in recent decades, have folded being replaced by huge charities with links to big businesses, in addition to receiving grants and more able to benefit from 20% Gift Aid on donations. More pests and diseases of trees have entered Britain since the start of the Millennium than in the whole of the previous century! If there was better public awareness of this then people might question more.

At the time I first purchased the plot, my sons were still involved with the Scouts so I was often asked to test Cubs and Scouts on identifying native trees and it is difficult to find all the basic 33 native trees to collect foliage and twig samples when you want them! So I planted a hedge of native trees and now Little Friars could be useful to anyone wanting to learn the basics of tree identification and so appreciate the wonderful heritage of exotic trees found in our towns and cities and perhaps this might encourage more planting to replace the legacy left by earlier generations.

Management of any collection has restrictions and mine at Little Friars is size and need for low maintenance, which working with nature helps to achieve. I also restrict planting to the old Christmas tree rows so as to make mowing operations easy. Surprisingly, the specimen trees really do not look regimented. The biodiversity strips, as I call unmown ribbons between the rows, have already proved their worth with a wider range of plants, including wild orchids, and insects to be seen. Some visiting naturalist groups have urged more nettles, bramble and thorns in these strips but it is important to focus on their purpose here and the practicality that I don't like getting stung or scratched. Fortunately I obtained some advice from an expert who advocated leaving the biodiversity strips uncut far longer than if we were managing them for wild flowers, in fact, the best thing he said was to mow them alternate years, and I think it can be fairly said that the greater insect diversity does help control aphids.

Recently I have become interested in developing Little Friars more as an ecological unit as trees like company; in the natural state, they would not just be with other trees but shrubs with herb and field layers too. Trying to create such a healthy habitat involves nurturing the whole ecosystem, including that below ground. Up until recently I have planted specimens at four-metre



Left, *Stewartia pseudocamellia* and right, *Cercis canadensis* 'Forest Pansy'.

spacings (I know it is too close but thinning will take place—either naturally or by intervention as time goes by) and used the space in between for Christmas trees. Now I hope to change this understory by using shrubs to add more interest as well as shelter. The tree collection is on the eastern side of the plot whilst the west side continues to grow Christmas trees with the idea that sales can help pay for maintenance—particularly important as both my husband and I grow older and to secure the future for Little Friars Arboretum. It is probably optimistic and sounds pretentious but I think one of the aims of any project should be self-financing and where possible, create employment opportunities too. The rabbit proof fencing put in for the Christmas trees was a boon when planting specimen trees, although it now needs frequent repairs. However I discovered deer are great dendrologists as they seem to find the rarest of trees to munch upon so now the rabbit fencing has been topped with electrified fencing rope. This was used instead of wire because of the habit of deer to inspect barriers which therefore should be easily seen and the deer then remembers it has a sting so they stay clear, even though they could in fact leap the height.

Little Friars has proved an interesting open air classroom for me in so many ways and developing the tree collection is really fascinating and although it will soon run out of space, I hope there will always be enough room for that really special tree I cannot resist.