El Dorado County Master Gardeners Present
SHADE GARDENING IN OUR MEDITERRANEAN CLIMATE

Presented By: Merry Campbell, Susan Corey-McAlpine, & EJ Kipping
Thank you to….

Today’s Hosts!

• Alison
• Anne
• Donna
• Laurel
• Muriel
Welcome!

- We are the UCCE MGs of EDC
- Volunteers, trained by the U of C
- Goal of providing research-based information to our community’s home gardeners
- Sign in & evaluation form
- Statewide survey
- Publications
- Timetable/snacks/restrooms
- Contributions
Endemic and invasive pests and diseases
Healthy families and communities
Sustainable food systems
Sustainable natural ecosystems
Water quality, quantity and security
What brought you here today?
Shade Gardening in our Mediterranean Climate

- What is a Mediterranean Climate?
- What is shade?
- Design considerations
- Plants to consider for conditions of shade
- Wrap Up and Questions
DEFINITIONS OF SHADE

• Definitions of shade
  • Full shade
  • Partial shade
  • Partial sun
  • Full sun
• By light density
• Wet vs. dry shade
SHADE DENSITY

- Filtered or Dappled
- High or Open
- Dense or Full
FILTERED OR DAPPLIED SHADE
FILTERED OR DAPPLIED SHADE
HIGH OR OPEN SHADE
HIGH SHADE
FULL SHADE
MOISTURE AVAILABILITY

– Wet Shade vs. Dry Shade
– Moisture competition
MOISTURE AVAILABILITY

Wet Shade

Dry Shade
SHADE VARIATIONS

• Seasonal
• Time of Day
SEASONAL VARIATION

DECEMBER 22
WINTER SOLSTICE

JUNE 22
SUMMER SOLSTICE
SEASONAL SHADE
dependent upon the canopy

March

September
CULTURAL CHALLENGES UNDER OAKS
CULTURAL CHALLENGES
UNDER OAKS
ADAPTING CONDITIONS TO BETTER SUIT SHADE PLANTS

- Spacing
- Use of Containers
- Shelters
- Design
  - Grouping
  - Existing Plants
SHELTERS - LATH
VEGETATION

• Add trees and shrubs
  – For more shade
  – To protect a certain plant

• Limb up trees
  – Open canopies for more light
DESIGN CONSIDERATIONS

• Layout
  – Include understory trees and shrubs
  – Plant in groups and masses

• Hardscape

• Colors

• Textures

• Changing conditions
PLANTS TO CONSIDER

• Annuals
• Bulbs and Corms
• Groundcovers
• Perennials
• Trees and Shrubs
• Vines
Annuals

Begonia sempiflorens
Fibrous/Wax Begonia

Browallia americana
Amethyst Flower

Heliotropium arborescens
Heliotrope

Fuchsia x hybrid

Impatiens balsamina
Annuals

*Begonia sempiflorens*  
Fibrous/Wax Begonia

*Browallia americana*  
Amethyst Flower

*Heliotropium arborescens*  
Heliotrope

*Fuchsia x hybrid*  

*Impatiens balsamina*  

Annuals

*Lobelia erinus*

*Torenia fournier*
Wishbone Flower

*Solenostemon scutellarioides*
Coleus

*Tropaeolum majus*
Nasturtium
Bulbs, Corms & Tubers

Arum italicum
Italian Arum

Chionodoxa spp.
Glory-of-the-Snow

Convalaria majalis
Lily-of-the-Valley

Crocus spp.
Bulbs, Corms & Tubers

**Arum italicum**
Italian Arum

**Chionodoxa spp.**
Glory-of-the-Snow

**Convalaria majalis**
Lily-of-the-Valley

**Crocus spp.**
Bulbs, Corms & Tubers

Erythronium Californicum
Fawn Lily

Erythronium dens-canis
Dogtooth Violet

Hyacinthoides hispanica
Bluebell; Wood Hyacinth

Ipheion uniflorum
Blue Star Flower
Bulbs, Corms & Tubers

*Leucojum estivum*
Summer Snowflake

*Leucojum vernum*
Spring Snowflake

*Lilium spp.*

*Scilla siberica*
Bluebell; Squill
Groundcovers

Ajuga spp.  
Carpet Bugle

Bergenia cordiflora  
Heartleaf Bergenia/Pig Squeak

Carex flacca  
Blue Sedge

Ceratostigma plumbaginoides  
Dwarf Plumbago
Groundcovers

*Chamaemelum nobile*
Chamomile

*Convolvulus sabatius*
Ground Morning Glory

*Cotula squalida*
New Zealand Brass Buttons

*Fragaria chiloensis*
Beach/Sand Strawberry
Groundcovers

*Galium odoratum*
Sweet Woodruff

*Lamium maculatum*
Dead/Spotted Nettle

*Houttuynia cordata*

*Mahonia repens*
Creeping Mahonia
Groundcovers

- Galium odoratum
  Sweet Woodruff

- Houttuynia cordata

- Lamium maculatum
  Dead/Spotted Nettle

- Mahonia repens
  Creeping Mahonia
Groundcovers

*Pachysandra terminalis*
Japanese Spurge

*Sagina subulata*
Scotch/Irish Moss

*Satureja douglasii*
Yerba Buena
Perennials

*Acanthus spp.*
Bear’s Breech

*Aconitum napellus*
Monkshood

*Alchemilla mollis*
Lady’s Mantle

*Anemone japonica*
Japanese Anemone
Perennials

Aquilegia spp.
Columbine

Aruncus dioicus
Goat’s Beard
Perennials

- Astilbe spp.
  - False Spirea

- Brunnera macrophylla
  - Bugloss

- Campanula spp.
  - Bellflower/Bluebells
Perennials

*Dicentra spectabilis*
Bleeding Hearts

*Digitalis spp.*
(except purpurea)
Foxglove

*Doronicum*
Leopard’s Bane

*Farfugium japonicum*
Leopard Plant
Perennial Ferns

*Adiantum pedatum*
Maidenhair Fern

*Asplenium scolopendrium*
Hart’s Tongue Fern

*Athyrium spp.*
Lady Fern/
Japanese Painted Fern
Perennial Ferns

Matteuccia struthiopteris
Ostrich Fern

Osmunda cinnamomea
Cinnamon Fern

Polypodium hesperium
Polypody Fern
Perennials

*Filipendula spp.*

*Francoa ramosa*

Maiden’s Wreath
Perennials

*Geum spp.*

*Helleborus niger*
Christmas Rose

*Helleborus orientalis*
Lenten Rose
Perennials

Geum spp.

**Helleborus niger**  
Christmas Rose

**Helleborus orientalis**  
Lenten Rose
Perennial Hostas

xHosta

‘First Frost’

‘Bressingham Blue’

‘Guacamole’
Perennials

*Isolepis cernua*
Fiber Optics Plant

*Ligularia dentata*

*Linaria purpurea*
Toad Flax
Perennials

Liriope
Lily Turf

Lobelia cardinalis
Cardinal Flower

Lychnis chalcedonia
Maltese Cross

Mertensia pulmonarioides
Virginia Bluebell

Mertensia ciliata
Mountain Bluebell
Perennials

*Polemonium*
Jacob’s Ladder

*Polygonatum biflorum*
Solomon’s Seal

*Primula spp.*
Primrose

*Pulmonaria caeruleum*
Lungwort

*Thalictrum spp.*
Meadow Rue
Perennials

Tiarella
Foam Flower/Sugar Scoop

Tricyrtis hirta
Toad Lily

Tradescantia virginiana
Spiderwort

Trillium chloropetalum
Wake Robin
Trees and Shrubs

*Abelia chinensis*

*Acer palmatum*
Japanese Maple

*Arbutus unedo*
Strawberry Tree
Trees and Shrubs

*Rhododendron spp.*
Azalea

*Arctostaphylos spp.*
Manzanita

*Aucuba japonica*
Japanese Aucuba
Trees and Shrubs

*Buddleja spp.*
Butterfly Bush

*Calycanthus occidentalis*
Spice Bush

*Camellia spp.*
Trees and Shrubs

*Carpenteria californicum*
Bush Anenome

*Cornus spp.*
Dogwood
Trees and Shrubs

*Daphne cneorum*
Garland Daphne

*Daphne odora*
Winter Daphne

*Daphne x transatlantica*
‘Eternal Fragrance’
Trees and Shrubs

*Fatsia japonica*
Japanese Aralia

*Frangula californica*
Coffeeberry

*Fuchsia magellanica*
Fuchsia

*Gardenia jasminoides*
Gardenia
Heteromeles arbutifolia
Toyon

Garrya fremontii
Fremont Silktassel

Halesia carolina
Snowdrop Tree

Hydrangea spp.
Trees and Shrubs

*Ilex cornuta*
Chinese Holly

*Jasminum humile*
Italian Jasmine

*Jasminum floridum*
Jasmine
Trees and Shrubs

*Kerria japonica*

*Kerria*

*Laurus nobilis*

*Sweet Bay*

*Loropetalum chinense*

*Chinese Fringe Flower*
Trees and Shrubs

*Mahonia spp.*
Grape Holly/Oregon Grape

*Nandina domestica*
Heavenly Bamboo

*Pieris japonica*
Trees and Shrubs

- *Rhododendron spp.*
- *Ribes sanguineum* (Red/Pink Flowering Currant)
- *Ribes speciosum* (Fuschia-Flowering Gooseberry)
- *Sambucus caerulea* (Blue Elderberry)
Trees and Shrubs

*Sarcococca*
Sweet Box

*Symphoricarpus mollis*
Snowberry

*Spirea spp.*
Trees and Shrubs

*Taxus*
Yew

*Weigela spp.*
Vines

*Aristolochia californica*
Dutchman’s Pipe Vine

*Campsis radicans*
Trumpet Vine

*Wisteria sinensis*
Chinese Wisteria
Questions?
Contact Information

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Websites:
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