San Bernardino Valley Water Conservation Garden
... A place for our community

Opportunities for Sponsorship
When trail-weary European settlers looking for the proverbial greener pastures first gazed upon southern California, they saw a boundless wilderness, full of promise and unrealized riches. What they didn’t see among the dense chaparral, silvery desert sage and golden California poppies was a way to use these resources to attract permanent residents and accompanying businesses to the state. What this land needed, they reasoned, was some water.

Those early pioneers looked to the east and found their water in the muddy churning of the mighty Colorado River. That water, along with melted snow pack imported from northern California and water pumped from below ground transformed the semi-arid region. The lush landscape that resulted attracted waves of tourists who were treated to a very different physical image of California than what had existed centuries before.

This change didn’t come without a price. California, like other western states, struggles to maintain its water resources while protecting the environment. Several droughts have already highlighted the importance of practicing water conservation in our homes through installation of efficient appliances and being mindful of unnecessarily running taps. Unfortunately, conservation of water has not become as widespread outside of our residences, as Californians continue to spend an estimated 70 percent of the state’s supply on outdoor irrigation. With the state suffering through its third year of drought coupled with limits placed on traditional quantities of imported water, the governor has declared a state of emergency and called for aggressive water conservation.

One way to save this most precious resource is by landscaping with native and drought tolerant plants that are suited to our climate. Besides the quantitative water savings these plants create, they also provide beauty and fragrance, supply shelter and food for local fauna and improve soil-stabilization and nutrient retention.

The Cal State San Bernardino Demonstration Garden has grown out of this need for water conservation education, coupled with the opportunity to showcase the beauty and diversity of California native plants. The garden is being made possible by the San Bernardino Valley Municipal Water District, the Inland Empire Resource Conservation District and the Rancho Santa Ana Botanic Garden working in partnership with CSUSB and the Water Resources Institute. Construction of the 1.4-acre garden is expected to begin in fall of 2009 and be completed by the following spring, with an official opening in April or May of 2010.

The garden will be built in one of the campus’ most prominent locations, along the sidewalk to the Coussoulis Arena, which has drawn more than a million visitors for graduations, athletic events, concerts and other events. The garden will provide water conservation education opportunities for all ages, from preschoolers to university students to community groups. The garden will feature the hydrologic cycle, beautiful drought-tolerant native plants and water-efficient irrigation tools to create a location conducive to everything from quiet reflection to hands-on conservation education.

This demonstration garden will re-introduce the community to the sights and fragrances that have been part of this area for thousands of years. It will encourage people to look to our past for answers about what will thrive in this climate, while harnessing the best water conserving technology that the present holds, to ensure a sustainable future.
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Founding Sponsors

$500,000
San Bernardino Valley Municipal Water District
Garden Design
Construction
Grant Funding partner

$50,000
Inland Empire Resource Conservation District
Garden Design/Construction
Environmental education for visiting K-12 classes

In Kind
California State University San Bernardino
Land
Project Management
On-going Maintenance

In Kind
Foundation for CSU San Bernardino
Administrative Services

In Kind
Water Resources Institute
Project Coordination
Garden Stewards

In Kind
Rancho Santa Ana Botanic Garden
Plant Palette
Irrigation Specifications
Maintenance Advice
Technical Support

Levels of Sponsorship

The project offers several opportunities for sponsorship: eight major features, six separate gardens, irrigation and signage. Any of the gardens can be individually or group sponsored. Donations are tax-deductible and will ensure that the garden becomes a point of community pride, as well as a learning center. The following pages detail some of the opportunities available. Listed below are the levels of sponsorship, which will be acknowledged with a permanent sign in the garden itself.

Cup
Donations, in kind or actual, up $1,000

Pitcher
Donations, in kind or actual, from $1,001-$4,999

Cistern
Donations, in kind or actual, from $5,000-$10,000

Pond
Donations in kind or actual, from $10,001 - $25,000

Aquifer
Donations greater than $25,000
PRELIMINARY CONCEPT PLAN FOR:
DEMONSTRATION GARDEN AT CALIFORNIA STATE UNIVERSITY SAN BERNARDINO
CSUSB DEMONSTRATION GARDEN LEGEND -- Donor Level

SIX GARDENS:

1. California Natives Garden $105,000
   Showcases collections of California Native Plantings

2. Desert Garden $41,000
   Demonstrates collections of cacti, succulents and other drought tolerant plantings that relate to the desert. Positioned along the edge of garden areas to relate to existing desert planting theme (at entry road).

3. Shade Garden $23,000
   Demonstrates Collections of drought-tolerant plants that tolerate shade. Positioned in shade of existing pine trees.

4. Groundcovers and Lawn Substitutes $14,000
   Demonstrates collections of drought tolerant groundcovers and lawn substitutes.

5. Mediterranean Garden $43,000
   Showcases, drought-tolerant, California-Friendly plant collections adaptive to the Mediterranean regions.

6. Fragrance Garden $25,000
   Showcases collections of fragrant California-Friendly trees, shrubs, perennials and groundcovers.

Note: all gardens will demonstrate plantings within various hydrozones.

EIGHT DONOR-SPONSORED FEATURES:

A. Upper Watershed Exhibit $88,000
   An elevated patio with enhanced concrete, steel shade structure, colored concrete seat wall and small amphitheater at center. Steel shade structure acts as seasonal water feature. Emulating the Upper Santa Ana Watershed, the bioswale / dry creek begins here and winds down to Water Conservation Learning Center.

B. Water Conservation Learning Center $88,000
   A sunken learning area with exhibits regarding soil, roots, water cycle, recharging aquifers, bioswales, etc. Data displays for water used and saved in each garden, annual rainfall, weather station info, etc., grass-lined swale brings collected water down along serpentine path.

C. Xeriscape Container Garden $42,000
   A covered structure and outdoor gallery for display of drought tolerant container plants. Vertical walls will be constructed to enclose the space and provide an opportunity to display university art.

D. Garden Signature and Donor Tribute $7,000

E. Four Water Leader Study Nodes $16,000
   One of four study nodes located throughout garden. Nodes include bench, computer workstation tables and power supply to be shaded with trees.

Water Feature $12,000
Irrigation $59,000
Improved Permeable Paving $53,000
**Upper Watershed Patio**

**Description:** An elevated patio with enhanced concrete, steel shade structure, colored concrete seat wall and small amphitheater at center. Steel shade structure acts as seasonal water feature. Emulating the Upper Santa Ana Watershed, the bioswale / dry creek begins here and winds down to Water Conservation Learning Center.

**Donor levels:** $55,000 for shade structure, patio, seat wall and small amphitheater; $21,000 for bioswale with grasses, soil preparation, irrigation and rock cobble.
Description: A water feature will be part of the Water Conservation Learning Center, to beautify the exhibit while highlighting the importance of water to our semi-arid climate. A water wall fountain allows a small amount of recirculated water to run over a surface to provide a cooling effect and the pleasing sound of running water in an environmentally responsible way.

Donor level: $12,000 for water wall
**Water Feature - Bubbling Rock**

**Description:** Water fountains have historically been used in arid and semi-arid climates to showcase this most precious resource and offer welcome cooling effects. A bubbling rock fountain will use a small amount of recirculated water to provide a visual and auditory element to the Water Conservation Learning Center.

**Donor level:** $12,000 for bubbling rock
**Improved Permeable Pavement**

**Description:** Permeable paving will be used for Serpentine Path and at patio in Water Conservation Learning Center. Pervious concrete allows water to flow through the pavement to recharge groundwater and minimize stormwater runoff. It also cuts down the amount of heat it reflects, an issue many large urban cities struggle with.

**Donor level:** $53,000 for pervious paving, with color and enhancements.
Description: The Learning Center is just that-- where exhibits will be located and small group lectures will take place. A central water feature will highlight this most precious resource and offer welcome cooling effects using a small amount of recirculated water to provide a visual and auditory element to the exhibit.

Donor level: $58,000 for structure, walls, roof structure, exhibits, small amphitheater; $12,000 for water feature
**Description:** State of the art irrigation will ensure that the garden gets only the amount of water it needs, where it needs it. Weather based controllers will adjust water levels and timing based on real-time conditions, preventing over watering and run-off.

**Donor level:** $59,000
Description: A covered structure and outdoor gallery for display of drought-tolerant container plants. Vertical walls will enclose the space and provide an opportunity to display university art.

Donor level: $42,000 for shade structure, walls, seating and various containers
Water Leader Study Nodes

Description: Four study nodes named in honor of local water leaders will be located throughout the garden. Nodes include bench, computer workstation tables and a power supply in an area shaded by trees.

Donor level: $4,000 each; $16,000 for four
Garden Signage/Donor Tribute

**Description:** The design for the donor tribute kiosk and overall garden signage will be determined later. Shown above are some examples of how other gardens have addressed particular signage needs.

**Donor level:** $7,000 for tribute kiosk and garden signage
**Description:** The garden will have a selection of attractive, water conserving trees, shrubs and groundcovers that are climate appropriate. The photos above show native and low water use plants already found on the Cal State San Bernardino campus.

**Donor level:** $106,000 for plant materials
Founding Sponsors

[Logos of sponsors]

and

Foundation for California State University San Bernardino
Cover, page background and collage photos by Brian Spears

Upper Watershed Exhibit Page: Agave
Improved Permeable Concrete: Golden Lantana
Water Feature: Red Yucca
Irrigation: Ocotillo
Container Garden Walls: Chaparral Bush Mallow
Study Node: Salvia
Donor Kiosk/Garden Signage: Buckbrush
Plant Material: California Black Walnut

Cover Photos: Red Bird of Paradise and Agave