A Summary of Facilities Management Efforts Toward a Sustainable Campus Prepared by Fred Weck

Energy Conservation:

- New 1,500 kilowatt Cogeneration Plant nearing completion will produce electrical power on-site more efficiently while allowing recovery of heat for beneficial purposes.
- Standards for interior and exterior campus lighting require lowest energy usage with maximum illumination.
- Motion sensors placed in classrooms and offices have helped reduce electricity use.

Recycling:

- The campus recycling activities operated by Facilities Management recycles an average of over 60 tons of cardboard annually.
- We recycle approx. 400 cubic yards of paper per year.
- We recycle about 7,000 pounds of glass, plastic, and aluminum cans annually.
- We provide the City of Redlands an average of 189 tons of green waste (tree trimmings, hedge trimmings, leaves, etc.) which the City recycles and gives to City residents as gardening mulch.

Water Conservation:

- We irrigate all outdoor lawns, trees, and landscaping on our 140 acre campus with non-potable water which originates as rain-water at Big Bear Lake in the mountains. This non-potable water is also used for washing the campus vehicle fleet.
- The campus has specified low-flow toilets and water-less urinals in recent construction.
- Drought resistant plants are used in new landscaping along with drip-irrigation.
- Mowing operations on lawns and turf incorporate mulching (leaving grass clippings in place rather than bagging the clippings) which conserves water.
- Lawn clippings from mowing operations are spread on ornamental planter beds to reduce weed growth and use of herbicides.

New Environmental Studies Building:

- New center for Environmental Studies, opened last year, was built to LEED (Leadership in Energy and Environmental Design) incorporates:
 - A green vegetated roof to reduce storm water run-off and 'heat island' effect
 - Photovoltaic cell array to capture sunlight and turn it into electricity.
 - A building design that maximizes the use of capturing sunlight for interior spaces.
 - Walkways and hard-scape around building are constructed of re-used pieces of old broken-up concrete sidewalks.
 - Landscaping using attractive and indigenous plants that are drought tolerant.

Climate Change:

- A consultant arborist aids us in implementing our campus policy to plant trees suited for this geographic climate that will last long, require less irrigation, and shade adjacent sidewalks to reduce the 'heat-island' effect.
- When construction of new buildings results in the removal of trees, the campus policy is to re-plant trees. This has resulted in a net gain of over 200 trees in the past decade.