

Building a Water Use Efficient Community

Conference and Exposition

Mother Lode Fairgrounds, Creekside Building

October 18-19, 2014

Vendor Exhibits

Booth Space is available for presenters, suppliers, contractors and consultants that offer services and supplies that result in increased water use efficiency. The vendors may be involved in the conference technical presentations and their booths will provide attendees with opportunities for detailed discussion of water use efficiency opportunities, technologies, methods, supplies available, etc. Vendor space is available outside the building both days; inside if weather is bad.

Introduction and Opening Ceremonies

Tuolumne County Chamber of Commerce Executive Director Mike Ayala will serve as Master of Ceremonies (MC Mike). Mike will discuss the primary objectives of this conference, opportunities available and event logistics. The event goals are:

1. Help those new to the community or new homeowners understand the benefits and tactics of efficient use of water in our community
2. Help the existing home/business owner understand and practice efficient water use
3. Provide usable tools and resources to make water use efficiency a way of life in Tuolumne County

The conference team will convey the need for community input and data regarding individual home/yard improvement opportunities and means available to provide such input during and after the conference.

Keynote Address

Doreen D'Adamo, the newest appointee to the State Water Resources Control Board will set the stage for the conference events, including expected actions of the State Board resulting from this historic drought, the future water supply picture in the state as well as the need and benefits of water use efficiency.

Tuolumne County's Water Supply; Past, Present and Future

Tuolumne Utilities District General Manager Tom Scesa will discuss the Tuolumne County water supply and delivery system, the effect of state and federal regulations on our local water supply, the effect of drought, climate change, PG&E operations, etc. Mr. Scesa will also discuss the future opportunities for enhancement of the available water supply.

Visualizing and Defining a Water Use Efficient Community

George Kirk, Landscape Architect, Licensed Contractor and owner of Solomon's Garden Nursery, will provide a graphic presentation to give attendees a visual understanding of the look and feel of a water use efficiency community. In addition, we will learn how decreasing our individual and collective water use improves our resilience to drought, saves us money and will increase the reliability of the water supply available to support the economic future of our region. Water use efficiency does not have to mean compromising our way of life and the beauty and function of our properties.

In Home/Business Water Use Efficiency Presentation

Presented by Peter Kampa, twenty year water manager, water use efficiency practitioner and owner of GoGreywater based in Sonora, will provide an educational session on the methods, practices, technologies, equipment etc available to maximize water conservation in the home or business.

- Overview of a water use assessment, calculating water demand and where it all goes
- Low flow fixtures and appliances
- Best water use practices in home and business (procedures, training, etc)
- Water saving technologies and water reuse

The Need for Public Input and Data

This presentation gives us the opportunity to further the discussion of the need for community feedback. We will highlight available handouts, message boards, website and other means of gathering the data necessary to identify how state bond funds or other investments can be put to use in our community to most efficiently make individual property improvements and reduce any negative impacts of maximizing water use efficiency.

Outdoor Water Use Efficiency Presentation

Presented by Marlys Bell and Al Dahlstrand of the Tuolumne County Master Gardeners and supported by technical experts in irrigation and water-wise gardening, this program will cover:

- Landscape design with low water using plant types
- Appropriate plant groupings with consideration of climate, irrigation and water use
- Estimating the irrigation needs of various plants
- Irrigation methods and their level of efficiency, conversion of spray to drip irrigation
- Smart irrigation technologies such as controllers moisture and weather sensors
- Other water saving techniques such as mulching, weed removal and irrigation timing
- Primer on alternative irrigation water such as rain harvest and greywater

Alternate Water Supplies – Rainwater/Greywater

An interactive overview presentation provided by Al Dahlstrand and Peter Kampa regarding the appropriate use, design, permitting and irrigation using harvested rainwater and greywater reuse systems. This session will provide a broad overview of alternative water possibilities, with more detail on the actual system installations available Sunday.

- Rainwater harvest and appropriate irrigation systems for rainwater
- Greywater systems including laundry-to-landscape, lateral branch systems for showers and bathroom sinks
- Permitting, code compliance and regulatory considerations
- Appropriate soaps, chemicals, etc so you don't kill your plants

Sunday

Sunday Keynote Address

An inspirational, challenging, supporting and encouraging discussion by County Supervisor Karl Rodefer, Chair of the County Water Agency, Water Policy Committee. This discussion will open your mind to the water supply needs to support economic growth in the County, how you can get involved and be part of the solution to provide water supply for future generations.

Choosing and Installing Water Efficient Plants and Irrigation

Tuolumne County Master Gardeners and technical experts Marlys Bell and Al Dahlstrand will provide detailed, hands-on demonstrations on how to choose appropriate plants for our region, where to find them, how to redesign your yard to best suit your new water efficient plants, how to install and irrigate them. In addition, attendees will learn about the latest equipment in "smart" irrigation that can be installed to replace and augment your existing irrigation/control systems. A demonstration will be provided detailing the appropriate use of drip system technologies to replace hose watering and/or spray irrigation.

Installing a Do-it-Yourself Rainwater Harvest and Irrigation System

This hands-on presentation by Master Gardener Al Dahlstrand and supported by GoGreywater's Peter Kampa will cover how to calculate rainwater production on your property, the appropriate surfaces for rain capture, installing gutter and downspout systems that reduce maintenance and are specific for rain harvest, cleaning mechanisms to prevent irrigation plugging and pump failure, storage tanks and barrels and requirements, installation techniques, system sizing, as well as how to use rainwater in your existing irrigation system or install a super-efficient rainwater drip irrigation system. Permitting and code requirements will also be emphasized.

Installing a Do-it-Yourself Laundry to Landscape Irrigation System

Peter Kampa of GoGreywater will provide a hands-on presentation covering the two primary types of non-permitted laundry water irrigation systems (lateral drain and pressure), advantages and disadvantages, design

calculations, code and county requirements, how they are designed and installed, mulch basins, appropriate plants and soaps. This program will be a step by step “how to” intended to instruct the savvy homeowners, handyman/woman and do it yourselfer. (Permitted) Lateral drain systems connecting showers and sinks will also be covered but in less detail due to their complexity.