

Seminar One: Focus on Design November 2

Session One/Two Title: Watershed Friendly Design—Planning for the Future of California as if Water Mattered

Speaker Bio and Education: **Jeff Loux, Ph.D.** is Chair of the Science, Agriculture and Natural Resources Department at UC Davis Extension, Director of the Land Use and Natural Resources Program and Sustainability Institute. He is also an Adjunct faculty at UC Davis department of Landscape Design and Architecture, teaching and conducting research in Sustainable Communities design. He has over 25 years experience in planning, resource management and water policy. He directs a professional education program with 140 classes and conferences and 4,500 participants annually. Dr. Loux co-authored the book *“Water and Land Use”* (2004) and has a second book on Land Conservation in press. His program conducts all of the training for the State Water Boards. He received his doctorate from U.C. Berkeley in Environmental Planning in 1987, specializing in groundwater policy in California.

Sessions 1 and 2 Description: This session will cover the meaning of sustainability in urban landscape design. An emphasis will be place on low-impact design with regard to watershed responsibility for urban planners and landscape architects creating projects in the San Joaquin Delta region. The second half of the 2-hour session will involve discussion and problem-solving activities to generate thoughtful solutions to typical situations in the urban environment that surrounds our watershed.

Session 3 Title: Complying with the Water Efficient Landscape Ordinances

Speaker Bio and Education: **Julie Saare-Edmonds** is a Staff Land and Water Use Scientist and has been the California Department of Water Resources Landscape Specialist for 11 years. She has worked as a technical advisor for the state’s green building program and as a team member of the Model Water Efficient Landscape Ordinance update. She did the conceptual design of the ‘Save Our Water’ Waterwise Garden for the 2010 and 2011 California State Fair. Julie is a qualified River Friendly Green Gardener, a G3 Certified Sustainable Landscape Professional, a UCCE Master Gardener and a member of Ecolandscape California. She has held a license for County Agricultural Inspector Biologist in Pesticide Regulation. She has a B.S. in Conservation Biology from Sacramento State University, and a Career Certificate in Horticulture from Sierra College.

Session 3 Description: The State’s Model Water Efficient Landscape Ordinance will be covered. How to comply with it in landscape projects will be described, samples of plans will be shown, and updates to the ordinance that designers should be aware of will be shared. Special issues and problems will also be discussed.

Session 4 Title: Planning and Executing a Practical and Sustainable Urban Tree Program

Speaker Bio and Education: Ken Menzer, City of Folsom Arborist, has been a nurseryman and practicing and consulting arborist for almost 20 years. He has spent 12+ years as a city arborist, the last 7 with the City of Folsom where he has created a model urban forest program for the city, developing a city Tree ID Reference Handbook, a comprehensive Master Tree List and revising and updating Folsom's Municipal Code for tree preservation. Ken earned his B.A. in Urban Horticulture/Arboriculture from Colorado State University. He holds International Society of Arboriculture certifications including municipal specialist. Ken is a frequent presenter on a variety of tree related topics and has been an instructor at Folsom Lake College on GPS/GIS for Inventory, Assessment, and Management of the Urban Forest. Ken has written numerous articles, and is a contributing author on tree sections of *River-Friendly Landscape Guidelines* and *Storm Water Prevention* for Sacramento County.

Session 4 Description: tree/landscape design-thought process for the overall urban program: parking, photometrics, commercial signage, root barriers, distances from trees to infrastructure, irrigation with State mandated water efficiency SB1881, and species diversity. An overview of turf & artificial grass with trees, climatic change and drought issues for trees in the next 100-200 years, slowly changing what was previously (maybe poorly) designed and installed. Changing city/county construction specifications to be more up-to-date, plus revising tree/landscape ordinances if they do not work.

Seminar Two: Focus on Construction November 9

Session 1 Title: Sustainable Construction with New and Heritage Trees

Speaker Bio and Education: Laurence R. Costello, Ph.D., Environmental Horticulture Advisor, University of California Cooperative Extension, San Mateo and San Francisco Counties (1981-2011; retired Emeritus 1/1/11); CE Associate in the Agricultural Experiment Station, Dept. of Plant Sciences, UC Davis. Currently: Arboricultural/Horticultural Consultant and Wholesale Tree Nursery Owner (Oracle Oak LLC). Dr. Costello is co-author of the new book "Oaks in the Urban Landscape," among many other publications. He is a highly awarded (including the 2009 Alex Shigo Award for Excellence in Education, International Society of Arboriculture) and much respected authority on trees in the urban environment, and sits on numerous committees: International Society of Arboriculture (ISA) Science and Research Committee (2004 – 2010) California Urban Forest Advisory Council (2010 – present) ISA Board Certified Master Arborist Test Committee (2007-present) ISA Certification Test Committee (2000 – 2006) San Francisco Urban Forest Council (2010-present).

He earned his B.S. in Plant Science and M.S. in Horticulture from UC Davis, and Ph.D. in Plant Physiology from UC Berkeley.

Session 1 description: This session will cover the right way to use trees in landscape projects from both a design and construction perspective, and how to preserve existing trees. Dr. Costello will address difficult situations like trees in paving, and the most sustainable solutions for promoting the long life and health of trees in urban landscapes. Case studies will be looked at to enhance the learning experience.

Session 2 Title: Landscape Features Proven to Reduce Runoff

Speaker Bio and Education: Lorence R. Oki, Ph.D., University of California Cooperative Extension Specialist in Landscape Horticulture. This appointment is held jointly with the UC Davis Department of Plant Sciences and the Landscape Architecture Program in the Department of Environmental Design. Dr. Oki's research focuses on water issues in urban horticulture. He led a large project funded by the California State Water Resources Control Board and the CALFED Bay-Delta Program that characterized runoff from residential areas and studied the effectiveness of management methods to reduce the runoff and the pollutants that may be included in it. As a Specialist his outreach activities includes speaking at UC Master Gardener trainings throughout the state, as well as other conferences and seminars on urban water issues and landscape design. He holds a B.S. in Ornamental Horticulture from California Polytechnic University at San Luis Obispo, an M.S. in Plant Science from UC Riverside, and a Ph.D. in Ecology from UC Davis.

Session 2 description: Showing the results of a long-term model landscape research study, Dr. Oki will describe the design and construction of landscape features most useful in reducing urban runoff and the load of pollutants in that runoff. Explanations for the results will help spur ideas for other landscape design considerations.

Session 3 Title: The Role of Plant Choice in Sustainability: Valley-appropriate Specs

Speaker Bio and Education: Karrie Reid is the UC Cooperative Extension Environmental Horticulture Advisor for San Joaquin County. She has been involved in landscape horticulture for over 30 years. As a UC Davis Staff Research Associate she performed irrigation and performance trials on ornamental plants in conjunction with the UC Davis Arboretum All-Stars plant introduction program, trials she continues now in cooperation with the California Association of Nurseries and Garden Centers to increase the available information on water-conserving plants for California gardens. She speaks to over 1,000 people a year at conferences and workshops on the topic: Right Plant, Right Place, as well as on Integrated Pest Management for landscapes, Tree maintenance, and other landscape horticulture topics. She holds a bachelor's degree in Biology from UC Santa Cruz, and an M.S. in Horticulture and Agronomy from UC Davis.

Session 3 Description: The principles of choosing the right plant for any landscape situation will be covered. There will be discussion of a variety of challenging situations and their potential solutions. Case studies of plants that should not be used in our area will be examined and examples of appropriate selections will be given along with the resources for additional choices.

Session 4 Title: Sustainable Irrigation Design Considerations and Material Trends

Speaker Bio and Education: Don Franklin has been in the landscape industry over 42 years. He has been a landscape contractor, is a Certified Irrigation Designer (CID), a Certified Landscape Irrigation Auditor (CLIA), and an EPA WaterSense Partner. His education is in ornamental horticulture and soil science. For 21 years Don has been involved in water management with designing and implementing central control systems. Since 1995 Don has developed several electrical troubleshooting classes and contributed to several water conservation classes for the Irrigation Association. In 2006 Don became the Northern California Specification Manager for Hunter Industries.

Session 4 Description: Don will cover the most current considerations for irrigation specifications for a variety of landscape situations. He will cover soil penetration of drip systems, pressure calculations for level and sloped jobs, issues associated with sprays, rotors, and drip-type systems including the latest on sub-surface irrigation of turf.

Seminar Three: Focus on Maintenance

November 16

Session 1 Title: Landscape maintenance of shrubs and turf: Years 1-3 and Beyond

Speaker Bio and Education: Karrie Reid, see previous.

Session 1 Description: This session will cover in detail the kinds of specifications that should be made for shrubs and turf to insure the survival and health of a new landscape project post-installation. Pruning and irrigation specifics will be detailed with common example species.

Sessions 2 and 3

Session 2 & 3 Title: Tree Maintenance Specs: Year 1-5 and Beyond

Speaker Bio and Education: Dan Pskowski earned his B.S. in Landscape Horticulture from Colorado State University, 1977, and did post-graduate studies in Entomology & Forest Pathology at Colorado State University, 1987-1988. He served 5 years as Grounds Foreman at Colorado State University - Fort Collins, as Grounds Supervisor at California Institute of the Arts, Valencia, California, and Campus Arborist at Colorado State University. Since 1990, Dan has worked for the City of Sacramento in the Urban Forestry Department as Street Services Arborist and City Arborist. He is certified with ISA (WE-0964-A). Dan was awarded Sacramento Tree Foundation's 2009 C. K. McClatchey Tree Hero Award for his outstanding commitment to Sacramento's urban forest.