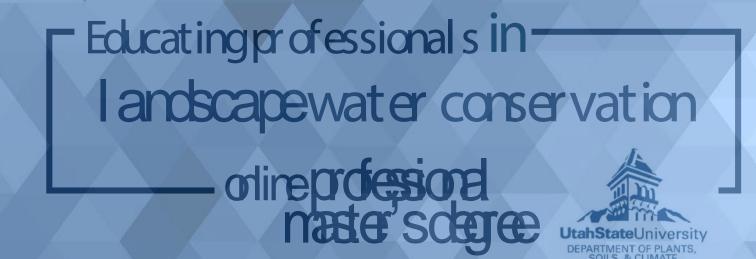
This presentation premiered at WaterSmart Innovations

watersmartinnovations.com





Masters of Professional Studies in Horticulture **MPSH** withaspecialization in **WATER EFFICIENT LANDSCAPE MANAGEMENT**

psc.usu.edu/mpsh

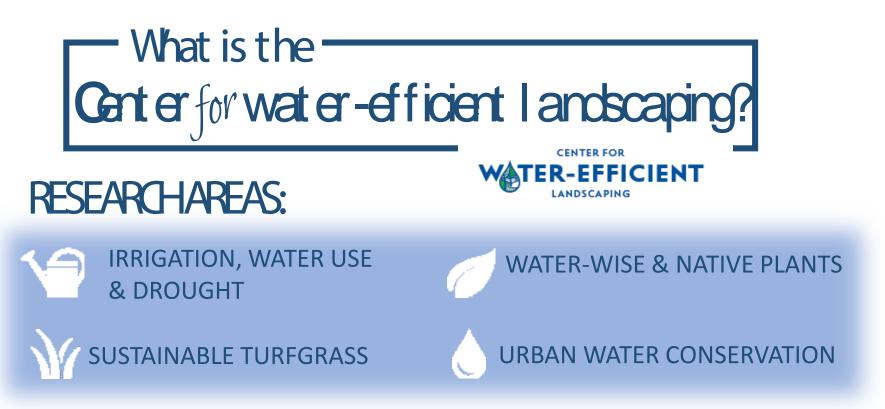
Dr. Larry Rupp, PhD

Professor of Landscape Horticulture Department of Plants, Soils & Climate Utah State University



Adrea Wheaton, MPSH

Program Coordinator Center for Water-Efficient Landscaping Utah State University



CRRENT RESEARCH

- research on water requirements of trees and turfgrass,
- effects of short-term drought on landscapes,
- development and use of drought tolerant grasses and landscape plants,
- characterization of community-wide landscape water demand and use patterns.

cwel.usu.edu



Extensionoutreach

- Qualified Water Efficient Landscaper (QWEL) program
- Master Gardener classes
- Low-water landscaping fact sheets
- Center for Water Efficient Landscaping Website (cwel.usu.edu)

Teaching

• Masters of Professional Studies in Horticulture (MPSH) online degree



- Whoarethe Professors and mentors?



RLarry **R**pp

MPSH PROGRAM FACULTY ADVISER

TEACHES: Water Efficient Landscaping Seminar **RESEARCH INTERESTS:** Development of plants native to the Intermountain West for introduction in the nursery industry for water-conserving landscapes

CENTER FOR

R-EFFICIENT



DR Janna endter-wada

TEACHES: Water Law & Policy **RESEARCH INTERESTS:** Human dimensions of drought and climate change, urban landscape water use, and wetlands

- Whoarethe Professors and mentors?



DR Paul Johnson

TEACHES: Professional Turf and Urban Landscape Water Management **RESEARCH INTERESTS:** Turfgrass development with increased drought and salt tolerance for adaptation to arid environments

CENTER FOR

R-EFFICIENT



DRKellykopp

TEACHES: Irrigation Design **RESEARCH INTERESTS:** Efficient irrigation, plant water-use efficiency evaluations, irrigation system design, smart water application technologies





Acrea wheat on, mpsh PROGRAM COORDINATOR TEACHING ASSISTANT: Low Water Landscaping

R-EFFICIENT



Dana Wenschell, MS

TEACHES: Readings in Water Conservation **RESEARCH INTERESTS:** Urban Water Conservation



----Whyagraduateprogramin Water-efficientlandscapemanagement?

- With an estimated **60% of drinking water** in the western U.S. applied to urban landscapes, water conservation in the landscape is an important issue
- **Conserving water** while **preserving landscape quality** is best managed by individuals with an understanding of both landscape horticulture and design, and water management and conservation.
- The purpose of this degree is to provide horticulturists with the knowledge and skills needed to effectively promote landscape water conservation. As water becomes more precious, the demand for these skills will continue to increase.

Onwater issues in the west:
Thesolution is a massic And, it's matching of a lot of different pieces. And each ore of the pieces has to be carefully calibrated in relation to the other pieces.

Patricia MI roy-

Topromote water conservation Openeedstounderstand themsaicofisses -

the role of turfgrass in lowwater landscapes Human behavior, motivation and education water law and policy issues

water purveyor constraints

plant water needs and drought-tolerant plants efficient irrigation technology

1.6

1.65

- How does the professional horticulture degree

- The MPSH Degree program is a **professional degree** based primarily on coursework and a capstone project.
- The MPSH Degree program consists of **33 credits of coursework** including 24 required courses and 9 credits of electives.
- The **Capstone Project** can be completed with a current employer in a field related to landscape water conservation, as part of an internship, or by working on a project or publication with an adviser from the Center for Water Efficient Landscaping
- The MPSH Degree program is now available completely online (with a one-week summer immersion course) or can be completed with face-to-face courses on the Logan Campus.



- Water conservation specialists with water districts, cities, counties or federal agencies
- Directors or managers of water conservation gardens
- Extension specialists
- Water-efficient irrigation designers
- Specialists in water-efficient landscape design, build and/or maintenance

- Private sector consultants
- Public sector landscape managers





Davidrice'02

CONSERVATION PROGRAM MANAGER Weber Basin Water Conservation District

Samuel cook '10

WILDLANDS RESEARCHER Camp Williams Military Base



The **MPSH** Degree program consists of **33 credits** of coursework including 24 required courses and 9 credits of electives.

Required Courses include:

- Low-Water Landscapes
- Readings in Landscape Water Conservation
- Professional Turf and Urban Landscape Water Management
- Landscape Irrigation Design
- Professional Experience (Capstone Project)
- Climate Change
- Water Law and Policy in the US
- Summer Immersion Course







The **MPSH** is available as an **online degree** with a one-week **'Summer Immersion'** course in the Salt Lake City Area.

- Valuable hands-on instruction to supplement online coursework
- Meet faculty and fellow students
- Hear from and meet professionals in the water conservation industry
- Field trips to demonstration gardens, water conservation districts
- Present Capstone Project status and get feedback from faculty and peers



The **MPSH** Degree program consists of **33 credits** of coursework including 24 required courses and 9 credits of electives.

Elective courses are 9 credits of below:

- Social and Environmental Psychology
- Instructional Graphic Production
- Grant Writing
- Managing Individuals and Groups
- Natural Resources/Environmental Economics
- Extension Education
- Environmental Education
- Geographic Information Systems



... others as appropriate



What are the most composed of the terms of terms

- **Connect the student** with real-world application of water conservation in the landscape.
- **Complete a project** with a current employer in a field related to landscape water conservation, as part of an internship, or by working on a project or publication with an adviser from the Center for Water Efficient Landscaping.
- **The Three Components** of the Capstone Project:
 - Capstone Proposal
 - Capstone Experience
 - Capstone Communication
- Agencies or firms interested in projects for students are encouraged to contact Larry Rupp or Adrea Wheaton.

What are the MPS-Achiesion MPS-Achiesion requerers?

- Bachelor's Degree in Horticulture or related field
 - Landscape Architecture
 - Residential Landscape Design
 - Plant Science
 - Soil Science
- Prerequisites
 - Herbaceous Plant Materials (available online)
 - Woody Plant Materials (available online)
 - Residential Landscapes
 - Arboriculture
 - Turfgrass Management
 - Fundamentals of Soil Science (available online)

- Letter of Interest
- Interview with CWEL faculty members



- Apply to the School of Graduate Studies **rgs.usu.edu**
- Graduate Record Exam (GRE) score of 40th percentile or higher
- Minimum undergraduate GPA of 3.0
- Submit Letters of Recommendation
- Submit Statement of Purpose





psc.usu.edu/mpsh

Larry Rupp Faculty Advisor larry.rupp@usu.edu

Adrea Wheaton Program Coordinator adrea.wheaton@usu.edu



Booth 411