



Facilities that will be used in the course include the following:

- Greenhouses and molecular genetics laboratories on the Colorado State campus
- CSU's Agricultural, Research, and Development Center, Fort Collins, CO
- Lower South Platte Irrigation Research and Demonstration Project, Iliff, CO
- USDA-ARS Limited Irrigation Research Farm, Greeley, CO
- Pioneer Hi-Bred International, La Salle, CO
- Panhandle Research Center, University of Nebraska, Scottsbluff, NE
- High Plains Agricultural Laboratory, University of Nebraska, Sidney, NE

**Visit the Plant Breeding for Drought Tolerance program at
<http://www.droughtadaptation.org>
for further program details and program registration**



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<http://www.csrees.usda.gov>

Plant Breeding for Drought Tolerance

**A short course at Colorado State University
June 14-25, 2010**



Plant Breeding for Drought Tolerance

Colorado State University, University of Nebraska-Lincoln, and Oklahoma State University faculty members in plant breeding, genetics, and physiology have joined together to offer a 3-credit short course in Plant Breeding for Drought Tolerance at Colorado State University, **June 14-25, 2010**. The course is targeted to graduate students in the plant sciences, as well as to professionals in the public and private sectors. It will provide three transferable graduate-level credits.

This intensive short course will consist of **classroom lectures**, **hands on lab exercises**, and **field research** in a drought breeding program at experimental field sites in Eastern Colorado and Western Nebraska. Participants should have a solid understanding of basic plant physiology and genetics prior to enrollment. Course objectives are designed around 3 modules:

- **Whole Plant Physiology of Drought Stress**
- **Plant Breeding for Drought Stress Tolerance**
- **Genomic Approaches to Drought Stress Tolerance**

The course will culminate in a symposium on drought adaptation research, where the keynote address will be given by Dr. Richard Richards of the Commonwealth Scientific and Industrial Research Organization (CSIRO), Canberra, Australia. Dr. Richards has dedicated his career to applied plant breeding for drought adaptation.



Dr. Richard Richards, CSIRO

Course Faculty

John McKay, Colorado State University
Assistant Professor
Quantitative Genetics /Evolutionary Ecology

Patrick Byrne, Colorado State University
Professor and Graduate Student Coordinator
Plant Breeding and Quantitative Genetics

Steve Baenziger, University of Nebraska-Lincoln
Eugene W. Price Distinguished Professor
Small Grains Breeding and Genetics

William Bauerle, Colorado State University
Assistant Professor
Ecophysiology and Stress Physiology

Bjorn Martin, Oklahoma State University
Professor
Stress Physiology

Marc Moragues, Colorado State University
Assistant Professor
Plant Breeding and Genetics

Lisa Donovan, University of Georgia
Professor
Plant Evolutionary Ecophysiology

Scott Haley, Colorado State University
Professor of Plant Breeding & Wheat Breeder

