

**Announcement  
and  
Call for Papers**

**Irrigation and Drainage for Food,  
Energy and the Environment**

*Fifth International Conference on Irrigation and Drainage*

Sponsored by



**USCID**

*The U.S. society for irrigation and drainage professionals*

**November 4-7, 2009  
Salt Lake City, Utah**

## Introduction

Viewed from a global perspective, with proper insight and planning, the world's fresh water resources are sufficient to meet all the demands for agriculture, industry and domestic uses. However, at a local level, water professionals are facing new challenges related to increasing water scarcity and competing uses of water. These uses include water for food, energy and the environment. This Conference provides an opportunity for water professionals, managers, policymakers and others to share their experiences with **balancing water demands**.

Often water is viewed as a single use resource; however, given the increase in **competition for water**, opportunities may exist at the local level to use water for multiple purposes. Exploring these opportunities will require **increased cooperation** among local water users and even countries who share water basins.

The Conference seeks to bring together water resource professionals from the United States and their counterparts and supporters from other countries. Professionals from the U.S. and abroad involved in irrigation, drainage and water resources planning will find the **multi-disciplinary Conference** of interest.

The **Fifth USCID International Conference on Irrigation and Drainage** will be a premier international event for water resources professionals. Held every two years since 2000, hundreds of water agency officials and engineers from dozens of countries have participated in USCID international meetings by presenting oral and poster session papers and attending the conferences. U.S. water experts look forward to the opportunity to exchange information and knowledge at USCID international conferences.

## Who Should Attend?

Participants will include engineers, environmental and social scientists, managers, attorneys and economists representing academia, consulting firms, water user organizations, multi-lateral banks, foreign assistance agencies, NGOs and government agencies.

## Conference Format

The four-day Conference will feature oral presentations in **Technical Sessions** and a **Poster Session**, plus keynote and meal speakers. Receptions, breaks and tours will provide excellent networking opportunities.

## Exhibition

An **Exhibition** will feature companies providing products and services related to irrigation, drainage and water resources; water management; environmental issues. The latest technologies and products will be showcased.

## Field Tours

A half-day field tour on Wednesday morning and a day-long Saturday tour will be Conference highlights.

## Call for Papers

Abstracts of proposed papers addressing the **Conference Topics and Sub-Topics** are invited. Abstracts will be accepted for either a 20-minute oral presentation, or for the Poster Session. Authors will submit a draft manuscript for peer review by the Conference Planning Committee prior to submitting the final manuscript. All accepted papers will be published in the **Conference Proceedings**.

**Important Note:** all accepted authors will be expected to prepare an electronic version of their paper for the **Proceedings**, which will be distributed during the Conference. Submittal of a final paper will constitute an agreement that the author will register for the Conference at the reduced author registration fee, attend the Conference and present the paper in person. **USCID will not provide funding, nor seek funding from donors or other sources, for authors or other participants to attend the Conference.** A publication fee will be charged if an author or representative does not attend the Conference to present the paper. Please do not submit an abstract if funding for your participation is unlikely.

Please submit a 200-400 word abstract by **February 15, 2009**, with this information at the top of the page:

- the paper title
- author and co-author names and affiliations
- address, phone, fax and e-mail for each author

Your abstract should be submitted as an attached .doc file to [stephens@uscid.org](mailto:stephens@uscid.org). Use the senior author surname as the file name, e.g., jones.doc. This Call is also found at [www.uscid.org/09intconf.html](http://www.uscid.org/09intconf.html).

## Conference Schedule

<b>Abstracts Due</b>	<b>February 15, 2009</b>
<b>Notify Authors</b>	<b>March 1, 2009</b>
<b>Draft Papers Due</b>	<b>June 1, 2009</b>
<b>Comments to Authors</b>	<b>July 15, 2009</b>
<b>Final Papers Due</b>	<b>September 1, 2009</b>
<b>Conference</b>	<b>November 4-7, 2009</b>

# Conference Topics and Sub-Topics

## Food

- ◆ *Role of irrigated agriculture in meeting growing world food demand*
- ◆ *Impact of rising fertilizer and commodity prices on irrigated agriculture*
- ◆ *Productivity trends in irrigated agriculture*
- ◆ *The future of supplemental irrigation in moderate rainfall areas*
- ◆ *Change in relative prices of inputs to irrigation agriculture*

## Energy

- ◆ *Impacts of rising energy costs on irrigation*
- ◆ *Integrating energy production within established irrigation systems*
- ◆ *Operation of water delivery systems for energy production vs. operation for food production*
- ◆ *Effect of the uncertainty of price and availability of energy on food supplies*
- ◆ *Application of alternative energy sources in water delivery systems*

## Environment

- ◆ *Invasive species issues*
- ◆ *Salinity and sustainability of irrigated agriculture*
- ◆ *Carbon footprints of irrigated and rainfed agriculture*
- ◆ *Competition for water — irrigation vs. environment*
- ◆ *Environmental impacts of agricultural drainage projects*
- ◆ *Effects of irrigation on wetlands*
- ◆ *Habitat value of irrigated lands and irrigation-dependent wetlands*
- ◆ *Cost of environmental mitigation and who pays the costs*

## Drainage

- ◆ *Technology and efficiency issues in sub-surface irrigation*
- ◆ *Sub-surface drainage needs for higher intensity precipitation events*
- ◆ *Cross drainage issues*
- ◆ *Disposal of drainage water; selenium and other trace elements*
- ◆ *Legal and quality issues in drainage water reuse*

## Policy

- ◆ *Globalizing markets for food*
- ◆ *Policy coordination among agencies and other entities*
- ◆ *Funding irrigation operations and maintenance and management*
- ◆ *Conversion of land and water from agricultural to M&I use*
- ◆ *Dealing with aging irrigation infrastructure — impacts, rehabilitation and replacement, funding*
- ◆ *Adapting to declining water supplies for irrigation*
- ◆ *What's next for water conservation*
- ◆ *Interstate/transbasin water transfer issues*

## Applications of Technology

- ◆ *SCADA*
- ◆ *GIS*
- ◆ *Flow measurement*
- ◆ *Demand forecasting*
- ◆ *Remote sensing*
- ◆ *Water supply forecasting*
- ◆ *Modeling*
- ◆ *Reservoir operations models*
- ◆ *Breeding for drought tolerance, reduced transpiration and increased water productivity*

## Conference Planning Committee

**Reed R. Murray**, General Chairman, U.S.  
Department of the Interior, Orem, Utah

**Clifford I. Barrett**, Consultant, Stansbury Park,  
Utah

**Franklin E. Dimick**, Dimick Water Resources  
Engineering, Monroe, Utah

**Robert H. Edwards**, Bureau of Reclamation,  
Galt, California

**Luis A. Garcia**, Colorado State University, Fort  
Collins, Colorado

**Rick L. Gold**, Camp Dresser & McKee, Salt Lake  
City, Utah

**Peter McCornick**, Nicholas Institute, Duke  
University, Durham, North Carolina

**Wayne Pullan**, Bureau of Reclamation, Provo,  
Utah

**J. Paul Riley**, Consultant, Logan, Utah

**Ted Shannon**, HDR Engineering, Inc.,  
Minneapolis, Minnesota

**Thomas J. Trout**, Agricultural Research Service,  
USDA, Fort Collins, Colorado

**Wynn R. Walker**, Utah State University, Logan,  
Utah

**Dennis Wichelns**, Indiana University Northwest,  
Gary, Indiana

## USCID

*The Mission of the United States Committee on Irrigation and Drainage is to foster sustainable, socially acceptable and environmentally responsible irrigation, drainage and flood control systems and practices for providing food, clothing and shelter to the people of the United States and the World.*

USCID is a nonprofit professional society whose members share an interest in the planning, design, construction, operation and maintenance of irrigation, drainage and flood control works; agricultural economics; water law; and environmental and social issues affecting irrigated agriculture.

USCID is the United States member of the **International Commission on Irrigation and Drainage (ICID)**, an association of more than 70 countries. Founded in 1950, ICID is a non-governmental organization dedicated to the sound and responsible management of water resources. Its central purpose is to promote the development and application of the sciences and techniques of irrigation, drainage, flood control and river channel stabilization.

USCID publishes the *USCID Newsletter*, proceedings of USCID meetings and special reports; organizes and sponsors periodic technical meetings and conferences; and distributes ICID publications. Since 1986, USCID has organized more than 30 regional, national and international meetings throughout the U.S. These meetings address contemporary issues affecting irrigated agriculture, offering a multi-disciplinary evaluation of problems and solutions.