



International Commission on Irrigation and Drainage (ICID)

International Workshop on “Precision Irrigation for Sustainable Crop Production”

Theme: “Precision Irrigation for Sustainable Crop Production”

Introduction:

The traditional meaning of precise irrigation is about applying precise amounts of water to crops at precise locations (e.g. within the soil profile) at precise times and uniformly across the farm. Precision irrigation, as a concept, slightly differs from this traditional definition. Precision irrigation focuses on individual plants or small areas within a farm, while the traditional definition takes a holistic approach at farm level. It is much more than the precise application of water; it seamlessly combines the optimal performance of the application system with the crop, water and nutrient management. It is a systems approach. It is applicable to all irrigation methods and all crops at appropriate area and time scales. The main objective of the precision irrigation is to optimize water application efficiency based on real climatic data collected at the farm.

Scope:

Precision irrigation is an aspect of precision agriculture. It is applying irrigation water within the field at the right place, time and amount. This requires understanding soil spatial variability, cropping practices and topography. Precision irrigation for irrigation water management is still in the development stage and requires research and development to allow it to become more widely used and applicable. The scope of this call for papers will include precision irrigation application using surface, sprinkler and trickle irrigation on small and large scale irrigation systems. Development of variable watering prescriptions using soil and landscape mapping and real time field monitoring are all critical aspects of this work. Sharing country experiences based on aspects of precision irrigation will be key to the success of this workshop

The abstracts/papers are invited on the following topics:

1. Precision irrigation technology for improving water use efficiency
2. Precision irrigation for poor quality water application
3. The Economy and National policies of precision irrigation
4. New Technologies for more accurate determination of crop water requirements for precision irrigation
5. Models as management tools for water management under precision irrigation

Schedule for submission of Abstracts/full papers

- | | |
|---------------------------------------------|----------------------|
| • Submission of abstracts (max. 300 words): | 15 April 2015 |
| • Notification of acceptance | 15 May 2015 |
| • Submission of full paper | 31 July 2015 |

This Workshop is being organized by ICID’s Working Group on Water and Crops (WG-CROP) during 66th IEC Meeting and 26th European regional conference of ICID from 11-16 October 2015 at Montpellier, France.

Workshop Chairman: VPH Dr. Ragab Ragab, Chairman, WG-CROP (E-mail: rag@ceh.ac.uk)

Workshop Coordinator: Dr. Vijay K. Labhsetwar, Director, ICID (E-mail: icid@icid.org)