

Special Session
on
Agricultural Water Management: Irrigation, Drainage, and the
Environment Issues
at
The 8th International Conference on Water Resources and
Environment Research (ICWRER 2019)
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Session Organizers:

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Scope and Objectives:

Approximately 70% of global water resource extracted by humans is used for irrigated agriculture. Much more water is involved in agricultural production taking into account of excess water drainage and rainfed dryland agriculture. However, increasing demand of food and fiber, water scarcity, and environmental protection pose challenges to agricultural water use. Subsequently, theories and techniques have been developed for agricultural water management.

This session will explore new approaches in increasing water use efficiency for irrigated agriculture, enhancing drainage efficiency for drained cropland, optimizing economic return, and mitigating environmental pollution such as salinity, nutrient losses, and greenhouse gas emission. Studies related to the following topics are encouraged to be submitted: field experiment on optimizing irrigation water use efficiency; water-saving irrigation technologies; water table management for agricultural drainage; hydrologic cycle in agricultural field; fate and transport of agricultural chemicals and emerging contaminants; greenhouse gas emission as affected by water management practices; new products, engineering measures, and modeling approaches for agricultural water management.