

Consejo Superior de Investigaciones Científicas

Institute full name: Consejo Superior de Investigaciones Científicas - AGENCIA ESTATAL CONSEJO SUPERIOR DE INVESTIGACIONES CIENTÍFICAS

Institute acronym: CSIC

Institute logo:



Website: www.csic.es

Address: Calle Serrano 117, Madrid, 28006, Spain.

Institute profile: The autonomous organism CSIC (Superior Council for Scientific Research) is the largest multi-disciplinary Public Research Institution of Spain. The CSIC budget in 2006 was 676 M€, 7.1% of which was obtained from the Framework Programme for R&D of the European Commission. This makes CSIC the fourth largest FP participant Europe wide. The CSIC group was formally established in 1995 at the Estación Experimental de Aula Dei, and is composed by six researchers working in the fields of irrigation engineering, crop water requirements and agronomy. This group participates in the 30-year research tradition of the Soils and Irrigation Unit of the CITA (Agri-food Research and Technology Center of the Government of Aragón). Both institutions are located in Zaragoza, Spain, and together compose the Research group for Irrigation, Agronomy and the Environment, recipient of the Excellence classification of the regional government. This extended group is composed of over 40 persons, and includes multidisciplinary capacities in irrigation systems, analysis of quantitative and qualitative issues of return flows, crop water requirements, GIS and remote sensing analysis, irrigation district management, soil salinity, numerical modelling of hydrodynamic systems and non-agricultural water use. In the period 2002- 2006, the extended group authored 65 research papers listed in the Web of Science, directed 9 Doctoral Theses, and lectured in 78 courses addressing students from Europe, Latin America and Africa. Competitive funding in this period was 2.7 M€. The research group executed FP6 projects QUALIWATER and BIOSAFOR, and is currently executing FP7 project SUWARESA.

Involved personnel

<i>Name</i>	<i>Contact details</i>	<i>Key qualifications</i>	<i>Photo</i>
Dr. Enrique Playán	Tel: +34 976 716 087 enrique.playan@csic.es	With research interests on irrigation system analysis and design, irrigation districts and irrigation hydrology, Dr. Playán has performed research and development activities on a number of international and national research projects in the last twenty years, and published dozens of papers in irrigation journals. His technological contributions include the release of management software for irrigation districts and irrigation simulation models. He is coordinator of the EEAD-CSIC research group. He currently serves as President of the European Normalization Committee CEN/TC334 "Irrigation Techniques", and as Coordinator of the European Joint Programming Initiative "Water Challenges for a Changing World".	
Dr. Ramón Aragüés	Tel: +34 976 716 357 raragues@aragon.es	He specializes in irrigation return flow modelling, investigating the relationship between irrigation management and soil/water salinity and pollution by nitrates. He is the head of the CITA Soils and Irrigation unit, and was the coordinator of the QUALIWATER FP6 project (INCO-CT-2005-015031). This project was devoted to the Diagnosis and Control of Salinity and Nitrate Pollution in Mediterranean Irrigated Agriculture. His long scientific career has led him to publish dozens of scientific papers in International Journals.	
Dr. Lola Quílez	Tel: +34 976 716 358 dquilez@aragon.es	A hydrologist by training, Dr. Quílez currently specializes on the impact of slurry application on dryfarming and irrigated agriculture. She performed research on hydrosalinity modelling and on nitrate pollution in irrigated areas. She is an accomplished scientific author.	
Dr. Nery Zapata	Tel: +34 976 716 080 v.zapata@csic.es	Her expertise shows a combination of irrigation system analysis and design and micrometeorological applications. She has obtained significant scientific impact in her articles on surface and sprinkler irrigation, and on the analysis of the micrometeorological aspects of the eddy covariance technique for evapotranspiration measurement.	

Dr. Daniel Isidoro

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He performs his research activities mainly on water and nitrogen balances in irrigated watersheds. His research comprises experimental and theoretical developments for the identification of the components of the water and solutes balances in irrigated systems. His work has a clear orientation towards the support of Water Framework Directive related policies.



Dr. Farida Dechmi

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She specialized in the development of hybrid models combining irrigation systems and crop models. These models permit to relate irrigation water use with crop performance and consumptive water use. Her current research interests also include non-point source agricultural pollution, with emphasis on Phosphorous and salinity.



Dr. Sergio Lecina

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He specializes on the engineering aspects of water allocation to agricultural uses. He has analyzed and modeled surface irrigation systems and sprinkler irrigation systems, as well as open channel and pressurized water allocation networks.



Dr. Raquel Salvador

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She specializes in irrigation quality for pressurized irrigation systems from small-scale to district level. Her research interest includes also irrigation decision making in urban and agricultural scenarios.

