Name: Amel Jemai
Current employer & Appointment/title: Engineer in hydraulic and water management, National Research Institute for Rural Engineering, Water, and Forestry (INRGREF).
E-mail: jemai.amel@gmail.com

Country:Tunisia

Area of Research

The improvement of the water use and its management at the agricultural land level up to the large scale, this integrates the water saving techniques, the improvement of the quality, the reuse of wastewater in agricultural irrigation and vulnerability assessment.

Biography

Amel Jemai , Engineer in hydraulic and management (2003). MSc in Hydraulics and Environment Modeling (ENIT, 2004) and MSc in irrigation and land management (IAM Bari-Italy, 2009). Her academics and professional skills deal with water resources management, irrigation systems, modernization of irrigation systems, water quality and environment aspects. She has a large background in water security and agricultural practices, communication with stakeholders including farmers' communities, and facilitation skills.

She starts her professional career in Tunisian environmental engineering and consulting company, her main tasks was plant treatment Survey implementation for different town in Tunisia, environmental impact study, participation in National Inventory on the release of dioxins & furans and the study of the action plan for the Tunisian industry standards adaptation and requirements of European Environmental standards.
Afterwards, she worked as a project coordinator in renewable energy private company, where she works on preparation of tenders, detailed studies and studies of implementation of energy saving projects (solar thermal, photovoltaic, solar, wind, biogas, cogeneration ...).
She worked also with the same position in Regional Department for Agricultural Development of Manouba, Tunisia, where her main activity was management and leading projects of pressurized irrigation networks, especially: negotiations, tendering, management, planning, supervision, preparation of tender documents and evaluation of tenders.

Since 2014 she is a member of the Research Laboratory of research Laboratory "Science and Agronomic Techniques in INRGREF dealing research on irrigation systems and the use of non-conventional water resources in agriculture and she works as an environmental specialist for pollution modeling and transfert, database establishment and water resources vulnerability. She is Member of the International Joint Laboratory NAILA. 2nd Axis "Biophysical operations under anthropic influence" and She is staff member of the international project "Getting to the Word We Want, a water related SDG framework for National Action" with the collaboration of UNU-INWEH and K-ECO Korea (2016-2018, 2019-2020).

She is working on the physiochemical quality of sewage effluents and groundwater used mainly for irrigation and she contributes in several sampling campaigns to monitor the water quality parameters, in this topic, she has participated on the international projects dealing with wastewater reuse and water resources quality like MERWRA and emergents pollutants action in International Joint Laboratories with IRD's partners. She is also conducting field surveys with different stakeholders, acquiring and statistical data analysis and geostatical processing.

She has also participated in social aspects on communication with stakeholders including farmer's communities and collect information, and she has contributed in a handbook chapter dealing with public acceptance of wastewater use in agriculture: Tunisian experience. Her last publication was a handbook chapter about waste management in Tunisia.

Amel Jemai,
Engineer in hydraulic and water management ,
INRGREF, Tunisia

Education:

Engineer in hydraulic and management. MSc in irrigation and land management .

Research:

The improvement of the water use and its management at the agricultural land level up to the large scale. the water saving techniques, the improvement of the quality, the reuse of wastewater in agricultural irrigation.

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