

SPEAKERS



Mohamed ZAARA

Hydraulic Engineer from ENIT (University El Manar, Tunisia), he directed the desalination service of SONEDE until 2009. In his career, he has occupied several positions in national and international organisms and developed a strong expertise in saline and sea water desalination.



Habib NASRI

currently Expert and Trainer in Renewable Energy and Energy Efficiency, worked at the National Institute of Scientific and Technological Research (INRST) in Tunisia. Then, he joined the Tunisian Electricity Company (STEG) where he was appointed Managing Director.



Paolo BARGE

Researcher at the Agricultural Engineering Unit (University of Turin, Italy). His interests include the use of automated systems and robotics in the agricultural field. His research focuses on the use of renewable energy and photovoltaic systems in agriculture.



Raoudha GAFREJ

Currently independent expert specialized in the field of research for expertise in integrated management of water resources and adaptation to climate change. She participated to the elaboration of several regional and national strategies related to water management and advocates for innovation in public policies of water resources management.



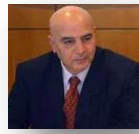
Amira CHENIOUR

She is a computer engineer, entrepreneur and CEO of Seabex company since 2016. Seabex works to increase efficiency in agriculture through environment and soil data collection and analysis using IOT technology deployed in field.



Nikolaos DERKAS

Assoc. Professor at the Department of Natural Resources & Agricultural Engineering of AUA. He is an Agricultural Engineer (AUA), Hydraulic Engineer (INP Toulouse), and Civil Engineer (NTU Athens). His research interests cover the area of irrigation systems, water resources management, crop water requirements, Soil-plant-atmosphere continuum modelling



Mohamed BEN SAKKA

Senior expert in GIZ since 2006. He is currently the central coordinator of the AGIRE project dealing with support to integrated water resources management in Tunisia.



Borhane MAHJOUR

Associate Professor at ISA-CM (University of Sousse) he holds a Ph.D. in Bio-physico-chemistry of Environment from INSA Lyon. He is the National Contact Point (NCP) of the Horizon2020 Research and Innovation program: Climate action, Rational Use of Resources and Raw Materials.



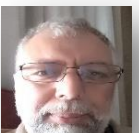
Radhouane NCIRI

Holding a Ph.D. in Agronomy, he is currently Engineer in chief and manager of the technological transfer service at the National Institute of field crops (INGC, Tunisia). he coordinated two projects related to agriculture adaptation to climate change in Maghreb and Mediterranean region.



Mohsen KRICHI

ICT Director at Institution of Research and Agricultural Higher Education (IRESA, Tunisia); he has a Postgraduate Telecom degree at SUP'COM Tunisia, Diploma in Agricultural Engineering, ESIM, PMP® (Project Management Professional) at PMI, TSPM® (TenSTEP Project Management Methodology), COBIT® (IS Governance) ITIL®, Redhat Certified Engineer (RHCE)



Ali BEN BRAHIM

General Director at IP-NET, a company specialized in manufacturing telecommunication solutions and embarked systems since 2008. He holds specialized studies Degree in Physics and Instrumentation from the University Pierre et Marie Curie (France) and teaches IOT course at Supcom.



Thierry Ferrandon

Expert in Hydraulics and Manager of HYDRITEC SYSTEMS Company in Tunisia.

Business forum

Smart Adaptation to Climate Change: “Water, Renewable Energies and Internet of Things (IoT)”

March 13th, 2019, at Higher School of Engineers of Medjez El Bab (ESIM)

Located in the southern side of the **Mediterranean basin**, one of the hot spot regions affected by **Climate Change**, **Tunisia** will be highly impacted. Indeed, increase of the frequency and severity of extreme events (floods, droughts), increase of temperature and heat waves' frequencies, sea level rise, acceleration of seawater intrusion, deterioration of water resources, biodiversity decline, are all expected in the future decades.

This event will constitute a **forum** to discuss actions needed for **Climate Change adaptation**, notably in the fields of **water management** and **renewable energy**. The **IoT** will be an opportunity for monitoring, management and implementation of alert systems to cope with climate change.

Seizing this opportunity, **ESIM** has invited **experts**, at **national and international level**, in water management, renewable energy and IoT to share their experiences, good practices and actions. A session will be dedicated to **start-ups** and **companies**, active in climate change adaptation, to present their activities and **the smart solutions** they are offering to help **agriculture** adaptation to climate change.

ORGANIZING COMMITTEE

Pr. Hassen KHARROUBI

Dr. Fatma TRABELSI

Dr. Slaheddine KHLIFI

Dr. Khaled EL MOUEDDEB

Dr. Achouak ARFAOUI

Ing. Salsebil BEL HADJ ALI

For more details about CLICHA, see:

Website: www.clicha.eu

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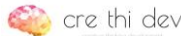
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Latvia University of Life Sciences and Technologies



AGENDA

08h30 - 09h00	Registration
Opening Ceremony	
09h00 - 09h30	Welcome Speeches General Director of ESIM: Mr. Hassen KHARROUBI Opening speech President of University of Jendouba : Mr. Mokhtar MAHOUACHI Secretary of State to the Minister of Agriculture for Water Resources and Fisheries : Mr. Abdallah RABHI Presentation of the Forum & the CLICHA project National Coordinator of CLICHA project: Ms. Fatma TRABELSI
Session 1: Water & Renewable Energies Chairman : Mr. Khaled EL MOUEDDEB (ESIM)	
09h30- 09h45	Mohamed ZAARA: Central Director of the Program Management Unit of the Seawater Desalination Plant of Sfax (SONEDE) « Water desalination in Tunisia: an alternative for strengthening water resources and improving quality»
09h45 – 10h00	Habib NASRI : Former Director at STEG; currently Independent Consultant and Trainer in Renewable Energies & Energy Efficiency « Towards the development of renewable energies as a pillar for development and economic competitiveness»
10h00 – 10h15	Paolo BARGE: Researcher at the Agricultural Engineering unit of DISAFA (Department of Agricultural, Forest and Food Sciences) of Turin University «Renewable energies exploitation: the CISAO experience in Africa»
10h15 – 10h30	Raoudha GAFREJ: Independent expert in integrated water resources' management and adaptation to CC; Manager of 'l'Univers de l'eau' «Modernization of Roman Aqueducts under energy constraint for the mobilization of surface water from climatic extremes»
10h30 – 10h45	Borhane MAHJOUB: National Contact Point (NCP) for the Horizon2020 Program «The climate and environmental priority in the Horizon 2020 R & I program»
10h45 – 11h00	DEBATE
11h00 – 11h30	COFFEE-BREAK

11h00 - 12h00	Visit of the stands: Startup, Societies & Research projects USGS-ESIM : 'Smart-groundwater Medjerda' : Improving sustainable groundwater management: a major challenge in the overexploited basin of Medjerda (northern Tunisia), project of PEER (cycle 7) program of National Academies of Sciences (NAS) funded by U.S. Agency for International Development (USAID) Euro-Mediterranean Journal for Environmental Integration-Springer, ISSN: 2365- 6433 (print version), ISSN: 2365-7448 (electronic version) Technological start-up: IO waves, embedded system engineering Ezzayra Smart Agriculture IRIS tec: Smart Bee: Electronic card for extracting and transmitting data in real time Wattnow : allows to monitor, analyze and adjust in real time the consumption of electrical appliances SSPRO : Smart Fresh – Smart Water- Smart Farm I-Farming : connected farm, precision irrigation International Technology Service « ITS » : Solar photovoltaic panels SUN Solution: Renewable energy
Session 2: Smart Water Management Chairman : Mr. Slaheddine KHLIFI (ESIM)	
12h00 – 12h15	Mohamed BEN SAKKA: GIZ Central Water Portfolio Coordinator in Tunisia "Impact of Climate Change on hydrological balances of major basins of Tunisia«
12h15 – 12h30	Mohsen KRICHI: ICT Director at Institution of Research and Agricultural Higher Education (IRESA) « Opportunities of the IOT in Tunisian agriculture»
12h30 – 12h45	Nikolaos DERKAS: Associate Professor at the University of Agriculture of Athens; Department of Natural Resource Management and Agricultural Engineering "Crop Water Requirements: A Case Study Using Precision Farming Methods«
12h45 – 13h00	Ali BENBRAHIM: Software Development Engineer at Group ADAMING "Value chain of the IOT: Interest and application for the water sector in Tunisia"
13h00 – 13h15	Amira CHENIOUR : Entrepreneur : CEO of SEABEX "SEABEX, an intelligent irrigation solution to tackle drought problems«
13h15 – 13h30	Radhouan NCIRI : National Institute of Field Crops «IREY application: A new approach through the adoption of modern techniques for the valorization of irrigation water and the improvement of profitability»
13h30 – 13h45	Thierry FERRANDON: Expert in Hydraulics and Manager Company HYDRITEC SYSTEMS. «Control of irrigation for sustainable management; Evaluation, Study and Implementation
13h45 – 14h00	DEBATE
14h00	LUNCH

