October **11-16** 2015 Montpellier (France) ICID2015 **CONFERENCE**

Innovate to Improve Irrigation Performance PROGRAM BOOK





ORGANIZERS AND PARTNERS



EDITORIAL

by F. BRELLE President of AFEID, Vice-President of ICID

The French Association for Water, Irrigation and Drainage and the International Commission of Irrigation and Drainage are pleased to welcome you to Montpellier from October 11 to 16, 2015 for the ICID2015 Conference "Innovate to Improve Irrigation Performance".

A step between the 7th World Water Forum and the Climate Conference COP21 in Paris, the ICID2015 Conference will highlight water issues for agriculture on the international agenda. The event will consist of an international scientific conference with Euro-Mediterranean zoom. numerous parallel sessions and side events, ICID workshops and 66th ICID International Executive Council meetings. Over 600 participants from 60 countries are expected: scientists, engineers, decision-makers, funders. Additionally, about 15 companies working in the irrigation sector will present their know-how.

We hope that this Conference will give to you the opportunity for rich scientific exchanges and fruitful meetings. We also invite you to share our experience in agricultural water management and to discover the cultural heritage of Montpellier and its surroundings.

More than 300 articles submitted to the Conference

600 participants from 60 countries Over expected

15 companies at the Exhibition Hall





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SCIENTIFIC COMMITEE **ORGANIZING COMMITEE**

PROGRAM AT A GLANCE

PROGRAM DAY BY DAY

TECHNICAL AND CULTURAL VISITS

USEFUL INFORMATION AND CORUM'S FLOOR PLANS

EXHIBITION

LIST OF PARTICIPANTS

SCIENTIFIC COMMITTEE

BELAUD Gilles (SupAgro - France) BOUARFA Sami (IRSTEA - France) President of the Committee CITEAU Jean-Michel (BRL - France) COFIE Olufunke (IWMI - International) CONDOM Nicolas (ECOFILAE - France) COULON Caroline (AFEID - France) DAURENSAN Nicolas (CACG - France) DE FRAITURE Charlotte (UNESCO-IHE - The Netherlands) DICKO Mohamed (ARID - Mali) DRESSAYRE Etienne (BRL – France) EL GUINDY Samia (Ministry of Water Resources - Egypt) EMAMI Kamran (KuritKara Consulting Engineers - Iran) FROEBRICH Jochen (ALTERRA - The Netherlands) GROSCLAUDE Jean-Yves (CGAEER - France) HAMMANI Ali (IAV Hassan II - Morocco) HARTANI Tarik (ENSA Alger - Algeria) HAYDE Laszlo (UNESCO-IHE - The Netherlands) HUGODOT Céline (ASA Gignac - France) IMACHE Amar (LISODE - France) JAMIN Jean-Yves (CIRAD - France) KULESZA Vincent (SCP - France) KUPER Marcel (CIRAD - France) LACROIX Bernard (ARVALIS - France) LEDUC Christian (IRD - France) LILI CHABAANE Zohra (University of Carthage INAT - Tunisia) LOPEZ Antonio (IRSA - Italy) MALERBE Florence (SCP – France) MATEOS Luciano (CSIC-IAS - Spain) MOLLE Bruno (IRSTEA - France) MOLLE Francois (IRD - France) MUKHERJI Aditti (CIMOD - India) OJEDA Hernan (INRA - France) ONIMUS Francois (Banque Mondiale – Etats Unis) (United States) PERRET Sylvain (CIRAD - France) PLAYAN Enrique (CSIC - Spain) PREVOST François (SCP - France) RAGAB Ragab (CEH - UK) RINAUDO Jean-Daniel (BRGM - France) ROLLIN Dominique IRSTEA - France) RUELLE Pierre (AFEID - France) RUF Thierry (IRD - France) SOO Tom (IWRA - International) VENOT Jean-Philippe (IRD - France) VIDAL Alain (CGIAR - International) VINCENT Bernard (IRSTEA - France)

ORGANIZING COMMITTEE

ARDOUIN BARDIN Sandra (IM2E) BELAUD Gilles (SupAgro) BITTOUN Cécile (IRSTEA) BOGOSLOVSKY Julie (AFEID) BOUARFA Sami (AFEID/IRSTEA) BRELLE François (President of AFEID/SCP) President of the Committee BROIN Mélanie (Agropolis International) CARRE Jean-Loïc (Pôle EAU) CITEAU Jean-Michel (BRL) COULON Caroline (AFEID) DAURENSAN Nicolas (AFEID/CACG) DRESSAYRE Etienne (AFEID/ BRL) FATOU Colette (IRSTEA) FAVANT Marie-Hélène (BRL) GAUDOUT Claire (CACG) IVANNIKOVA Anastasia (VERSeau Développement) KEDAJ Yvan (Swelia) LECONTE Gwenaëlle (Pôle EAU) MAILLARD Aliette (IRSTEA) MIRALLES Chantal (AFEID) MOLLE Bruno (AFEID/IRSTEA) ROLLIN Dominique (AFEID/IRSTEA) RUELLE Pierre (AFEID) SOO Tom (IWRA) VIDAL Alain (AFEID/ CGIAR) WAWRZYKOWSKI Marie (IRSTEA)

ICID2015 Conference

LIST OF ABBREVIATIONS

PFSI Permanent Committee on Technical Activities PCTA Permanent Committee on Technical Activities PCTA Permanent Committee on Technical Activities AFR W0 African Regional Working Group CCOURD Congress, conferences committee CCOURD Congress, conferences committee CCOURD Congress, conferences committee CFP AF P Committee on Public Relations and Publications EBW0 Cultouren Regional Working Group TFW1V Task Force on Walke Engineering TFW1V Task Force on Walke Engineering W0 BID ENERGF Task Force on Walker for Bio Energy and Agricultural Water Management W0 CLUHF Working Group on Water and Crop W0 BID ENERGF Working Group on Water and Crop W0 BID ENERGF Working Group on Instaton and Agricultural Water Management (WC CLUMATE) W0 BID ENERGF Working Group on Instaton and Management Engiptica. W0 BID ENERGF Working Group on Instaton and Management Engiptica. W0 BID ENERGF Working Group on Instaton and Management Engiptica. W0 BID ENERGF Working Group on Instaton and Management Engiptica. W0 BID ENERGF Working Group on Instaton and Management Engiptica. W0 BID ENERGF Working Group on Instaton and Group Engiptica. W0 BID ENERGF Working Group on Ins		Permanent Committee on Strategy and Organization
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26th ERC 🕨 26th ICID European (euro-mediterranean) Regional Conference		

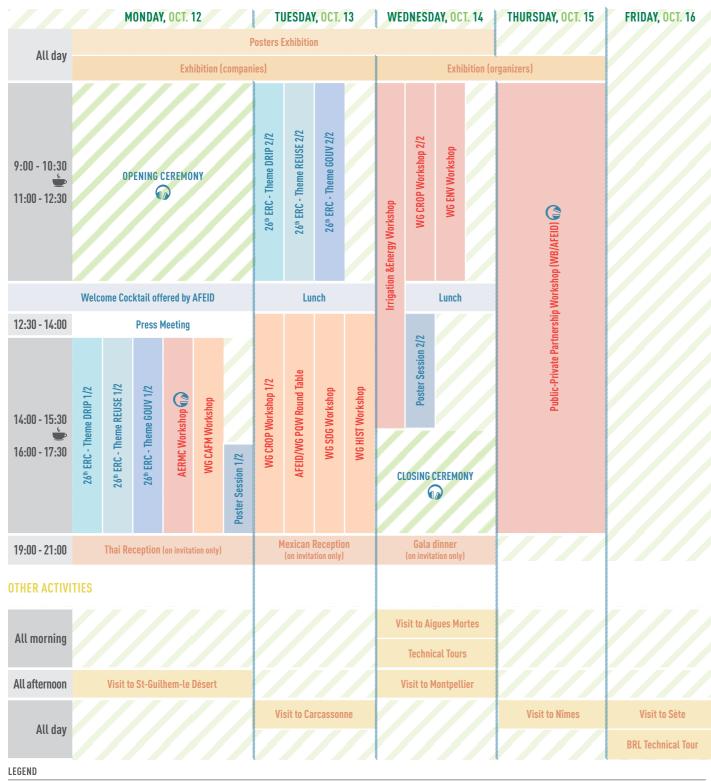
ID2015 Conference

AT A GLANCE

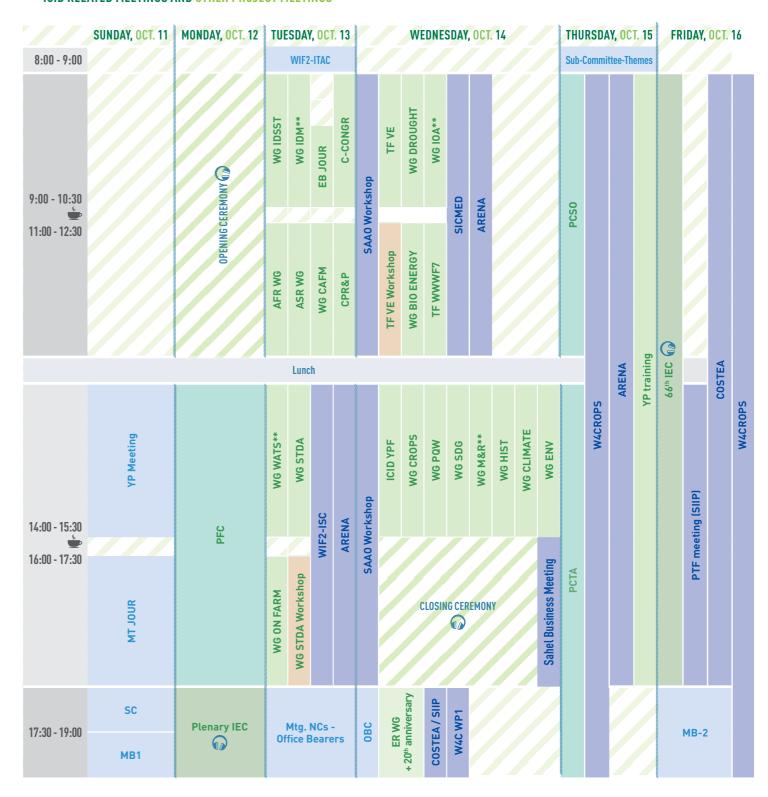
CONFERENCE PROGRAM

PROGRAM AT A GLANCE

CONFERENCE SESSIONS - WORKSHOPS



ICID RELATED MEETINGS AND OTHER PROJECT MEETINGS



Plenary sessions
 26th ERC - Theme DRIP
 26th ERC - Theme REUSE
 26th ERC - Theme GOUV

 International workshops proposed by ICID Working groups
 International workshops proposed by other initiatives Cultural and Technical Tours
 Exhibition

Reception
 With support of Délégation générale à la langue française et aux langues de France

LEGEND

■ ICID Working Group meetings
 ■ ICID Committees meetings
 ■ ICID IEC
 ■ ICID other meetings
 ■ ICID iet a langue française et aux langues de France

8

ICID2015 Conference

ICID IEC Internal workshops held within ICID Working Groups ** Newly constituted workbodies

MONDAY, OCTOBER 12, 2015

WHEN	WHAT	WHERE
	Registration - welcome desk	Joffre
	Organizing Committee	Sully 3 bis
All day	ICID Rooms	Sully 3
	Posters Exhibition	Joffre 1
	Exhibition (companies)	Joffre 2 & 3
9:00 - 12:30	OPENING CEREMONY for the 26 th ERC and 66 th IEC	Pasteur
	Welcome Cocktail offered by AFEID	Joffre 1, 2 & 3
12:30 - 14:00	Press Meeting	Joffre 5
All afternoon	Visit to Saint Guilhem le Désert	
	26 th ERC - Theme DRIP 1/2	Rondelet 1 & 2
	26 th ERC - Theme REUSE 1/2	Sully 1
14:00 - 17:30	26 th ERC - Theme GOUV 1/2	Sully 2
	Water ressource quantitative management under climat change : the French Mediterranean case (AERMC)	Barthez 1 & 2
	Workshop on Non-Structural Adaptations to Flood Management (WG CAFM)	Joffre 5
16:00 - 17:30	Poster Session 1/2	Einstein
19:00 - 21:00	Thai Reception (on invitation only)	Level 3

TUESDAY, OCTOBER 13, 2015

WHEN	WHAT	WHERE
	Registration - welcome desk	Joffre
	Organising Committee and ICID Rooms	Sully 3 bis
All day	ICID Rooms	Sully 3
All day	Posters Exhibition	Joffre 1
	Exhibition (companies)	Joffre 2 & 3
	Visit to Carcassonne	
	26 th ERC - Theme DRIP 2/2	Rondelet 1 & 2
9:00 - 12:30	26 th ERC - Theme REUSE 2/2	Sully 1
	26 th ERC - Theme GOUV 2/2	Sully 2
	Lunch	Joffre 1, 2 & 3
	Workshop on Precision Irrigation - 1/2 (WG CROP)	Rondelet 1 & 2
14:00 - 17:30	Round Table on REUSE Waste water reuse in agriculture (AFEID/WG PQW)	Sully 1
14:00 - 17:30	Workshop on Future of drainage under environmental challenges and emerging technologies (WG SDG)	Barthez 1
	Workshop on History of water crisis, old and recent issues (WG HIST)	Barthez 2
19:00 - 21:00	Mexican Reception (on invitation only)	Level 3

LEGEND

Plenary sessions ■ 26th ERC - Theme DRIP ■ 26th ERC - Theme REUSE 26th ERC - Theme GOUV

International workshops proposed by ICID Working groups International workshops proposed by other initiatives

Cultural and Technical Tours Exhibition Reception

ICID RELATED MEETINGS AND OTHER PROJECT MEETINGS

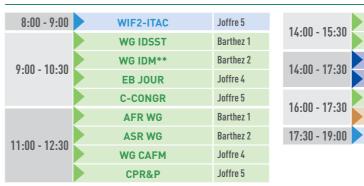
14:00 - 17:30	PFC	Joffre 4
17:30 - 19:00	Pleneray IEC	Einstein

LEGEND

ICID Committees meetings ICID IEC

Plenary sessions International workshops proposed by ICID Working groups ■ 26th ERC - Theme DRIP International workshops proposed by other initiatives ■ 26th ERC - Theme REUSE 26th ERC - Theme GOUV

ICID RELATED MEETINGS AND OTHER PROJECT MEETINGS



LEGEND

LEGEND

ICID Working Group meetings Internal workshops held within ICID Working Groups Project meetings ICID other meetings ** Newly constituted workbodies

ICID2015 Conference

Cultural and Technical Tours Exhibition

Reception

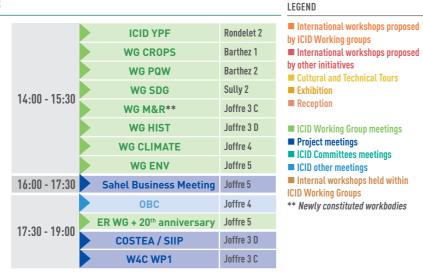
WG WATS**	Joffre 4
WG STDA	Joffre 5
ARENA	Sully 2
WIF2-ISC	Sully 3 bis
WG ON FARM	Joffre 4
WG STDA ws	Joffre 5
Mtg. NCs - Office Bearers	Rondelet 1-2

WEDNESDAY, OCTOBER 14, 2015

WHEN	WHAT	WHERE
	Registration - welcome desk	Joffre
	Organising Committee	Sully 3 bis
All day	ICID Rooms	Sully 3
	Posters Exhibition	Joffre 1
	Exhibition (organizers)	Joffre 2 & 3
	Visit to Aigues Mortes	
	Pond of Montady - Technical Tour	
All morning	NOWMMA Project - Technical Tour	
	IRSTEA Experimental Platform - Technical Tour	
	Visit of Gignac WUA - Technical Tour	
	Workshop Irrigation & Energy	Rondelet 1
9:00 - 12:30	Workshop on Precision Irrigation - 2/2 (WG CROP)	Barthez 1
	Workshop Ecosystem Services and Multi-Functionality of Irrigation and Drainage Systems (WG ENV)	Joffre 5
	Lunch	Joffre 1, 2 & 3
All afternoon	Visit to Montpellier	
14:00 - 15:30	Workshop Irrigation & Energy	Rondelet 1
14:00 - 15:50	Poster Session 2/2	Einstein
16:00 - 18:00	CLOSING CEREMONY for the 26 th ERC and 66 th IEC	Einstein
19:00 - 23:00	Gala dinner (on invitation only)	Château de Pouget

ICID RELATED MEETINGS AND OTHER PROJECT MEETINGS

	TF VE	Rondelet 2
9:00 - 10:30	WG DROUGHT	Joffre 3 C
	WG IOA**	Joffre 4
9:00 - 12:30	SICMED	Barthez 2
7:00 - 12:30	ARENA	Joffre 3 D
9:00 - 17:30	SAAO Workshop	Sully 1
	TF VE Workshop	Rondelet 2
11:00-12:30	WG BIO ENERGY	Joffre 3 C
	TF WWWF7	Joffre 4



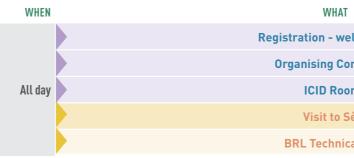
THURSDAY, OCTOBER 15, 2015



ICID RELATED MEETINGS AND OTHER PROJECT MEETINGS

8:00 - 9:00	Sub-Committee-Themes	Joffre 5
9:00 - 12:30	PCSO	Joffre 5
9:00 - 17:30	YP training	Joffre 3 C
7:00 - 17:30	ARENA	Joffre 3 D
9:00 - 19:00	W4CROPS	Joffre 4
14:00 - 19:00	РСТА	Joffre 5

FRIDAY, OCTOBER 16, 2015



ICID RELATED MEETINGS AND OTHER PROJECT MEETINGS

66 th IEC	Joffre 1
COSTEA	Joffre 5
W4CROPS	Joffre 3 D
PTF meeting (SIIP)	Joffre 4
MB-2	Joffre 4
	COSTEA W4CROPS PTF meeting (SIIP)

ICID2015 Conference

	WHERE
elcome desk	Joffre
ommittee	Sully 3 bis
oms	Sully 3
Pont du Gard	
ganizers)	Joffre 2 & 3
erships (WB / AFD / AFEID)	Joffre 1
h	Joffre 1, 2 & 3
erships (WB / AFD / AFEID)	Joffre 1

LEGEND

- International workshops proposed by other initiatives
- Cultural and Technical Tours
- Exhibition
- ICID Working Group meetings
- Project meetings
- ICID Committees meetings
- ICID other meetings

	WHERE
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LEGEND

Cultural and Technical Tours Exhibition

■ ICID Working Group meetings

- ICID IEC
- Project meetings
- ICID other meetings

DAY BY DAY DAY

PROGRAM

MONDAY, OCTOBER 12

9:00 - 12:30 - PASTEUR

OPENING CEREMONY

Master of Ceremony: Philippe Lefebvre, journalist at France Inter

9:00

Beginning of the Opening Ceremony

- Introduction, welcome speeches
- Speech of François BRELLE, President of AFEID, ICID2015 organizer • Speech of René REVOL, Vice-President of Montpellier Méditerranée
- Métropole
- Speech of Saeed NAIRIZI, ICID President
- Speech of Damien ALARY, President Languedoc-Roussillon Region
 Speech of Laurent ROY, President of Water Agency Rhône Méditérranée Corse
- Keynote speech of Alain VIDAL, Director for Strategic Partnerships, CGIAR
- VIP Presentations and introduction of the roundtable

10:30 Coffee Break

11.00

High-Level Round Table:

"What policies to achieve sustainable food security through an irrigated agriculture that adapts to and mitigates climate change?" With participation of several Ministers and high officials from the Mediterranean and from other horizons.

Testimony interventions from international VIP

12:30

End of the Opening Ceremony

MONDAY - 14:00 - 17:30 - RONDELET 1-2

THEME DRIP (1/2)

Drip irrigation for water savings : the winning formula? CHAIRMAN: Johren FROEBRICH

MODERATOR: Jean-Philippe VENOT

Today drip irrigation systems are speeding fast across the world, spurred on Government incentives, by subsidies to individual farmers and large modernization programs, but also trough farmer's private investments. This technical revolution creates new business opportunities for local (and sometimes informal) entrepreneurs who install, repair and even produce irrigation equipment at the local level. However the reasons why farmers adopt drip irrigation systems could be broader than the "more crop per drop" paradigm.

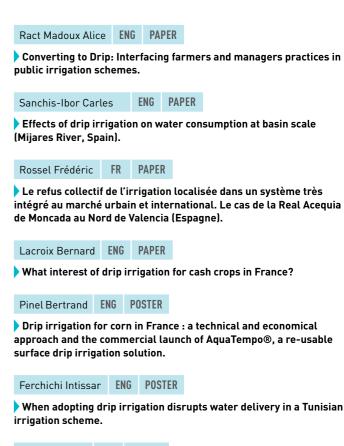
Taky Abdelilah FR PAPER

Reconversion des systèmes d'irrigation existants à l'irration localisée. Cas du périmètre du Gharb au Maroc.

Djamel Latrech FR PAPER

Quelles innovations techniques et sociales pour une gestion durable des agrosystèmes et des ressources en eaux souterraines en zones arides : Le Cas du Système Aquifère du Sahara Septentrional. ICID2015 Conference

You can consult all papers on the website of the Conference: icid2015.sciencesconf.org



Reinders Felix ENG POSTER

Drip irrigation as an efficient water saving practice.

MONDAY - 14:00 - 17:30 - SULLY 1

THEME REUSE (1/2)

What potential for wastewater use in agriculture?

CHAIRMAN: Tom SOO / MODERATOR: Bruno MOLLE

The way wastewater is reused is shaped by the standers of many countries that have defined standard treatments for different possible uses (agricultural food and non-food, green areas). These standards are sometimes very restrictive resulting from a strict application of the precautionary principle. However the actual use of wastewaters by farmers often does not comply with these rules and generates health and environmental hazards. In particular, the development of peri-urban farming is often based on an increasing use of non-treated wastewater.

Gamri Souha ENG PAPER

Biofilm growth at high cod and particle concentration levels: application to the case of micro-irrigation emitters used for wastewater reuse.

Rodda Nicola ENG PAPER

Use of water for food production in urban and peri-urban homestead gardens of South Africa.

Li Jiusheng ENG PAPER

Effects of lateral depth and water applied on transport of E. coli in soil and residuals within plants and asparagus lettuce production for drip irrigation applying secondary sewage effluent.

Patole Sanjay ENG PAPER

Impact of treated waste water from food processing industries in agriculture through drip irrigation system.

Karimi Leili ENG PAPER

Wastewater use in arid agriculture zones Case study: Esfarayen city of Iran.

Tas Ismail ENG POSTER

Effects of oxygen concentration of wastewater on soil and tomato.

Adedugbe Adebola ENG POSTER

Urbanization : effect of waste water on sustainable agriculture.

Hsieh Ming-Kai ENG POSTER

Utilizing Total Amount Control to Manage Wastewater Discharge into Irrigation-Drainage Channels ? A Case Study of Yilan Irrigation Association. Taiwan.

Rachmadyanto Herry ENG POSTER

Wastewater Use for Irrigation in Jatiluhur Integrated Irrigation System.

MONDAY - 14:00 - 17:30 - SULLY 2

■ **THEME GOUV** (1/2)

What governance for groundwater and surface water use in agriculture?

CHAIRMAN: Jean VERDIER / MODERATOR: Olivier PETIT & Marcel KUPER Groundwater use is increasing worldwide due to easy access to this resource. It generates a groundwater economy but creates the conditions for overexploitation. Access to groundwater accurs most often individually but with many arrangements between farmers at the local level. This occurs both within existing irrigated schemes, thus exposing the inadequacies of conventional surface water governance, as well as in new irrigated territories, which shall require a new institutional arrangement.

Kuper Marcel ENG PAPER

Liberation or anarchy ? The Janus nature of groundwater on North Africa's new irrigation frontiers.

Villholth Karen ENG PAPER

Groundwater Irrigation for Smallholders in Sub-Saharan Africa? A Review.

Gonzalez Juan-Manuel ENG PAPER

Mexican experiences to control groundwater use in agriculture.

Molle François ENG PAPER

State regulations in groundwater management: they bark but do they bite?

Lavenus Raphaelle ENG PAPER

Shall we trust local stakeholders to manage groundwaters?

Rojat Dominique FR PAPER

Quelles solutions à la surexploitation des eaux souterraines en Méditerranée ?

Petit Olivier ENG PAPER

Worker, peasant or entrepreneur? Analysis of the entrepreneurial logics and practices of family farmers in agrarian reform cooperatives in the Saiss (Morocco).

MONDAY - 14:00 - 17:30 - BARTHEZ 1-2

AERMC WORKSHOP

Water resources quantitative management under climate change: The French Mediterranean example

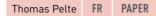
(by Rhone - Mediterranean and Corsica Water Agency) CHAIRMAN: Patrick SAINT-LÉGER / MODERATOR: Jean-Michel LOBRY

PCC latest scientific findings confirmed that climate change is strengthening. This is particularly true on the shores of the Mediterranean Sea, hot spot at the world scale, as well as in the mountains. The facts speak for themselves: the grapes harvest season has already shifted by a month in half a century, and the phenomenon is just beginning. It is necessary to adapt the territory to the effects of climate change. Concerning water, we need to improve the knowledge about climate change impacts on water resources and as well as about the impacts of different scenarios of adaptation. Without waiting longer, given the high vulnerability of some of the Mediterranean territories, we need to improve water savings and water use efficiency. The objective of this seminar is to share knowledge and experiences acquired on the French Mediterranean area, and beyond that, on the Euro-Mediterranean region.

Introduction

J.M. Lobry and Laurent Roy FR SPEECH

Adaptation to climate change:



Presentation of the climate change adaptation plan of the Rhône Mediterranean Basin.

Adaptation scenarios on the refitted basin of the Durance.

Sébastien Chazot FR PAPER

Quantitative analysis of the Rhône river.

Julien Dubuis FR PAPER

The cost recovery : the example of a civil engineering structure of raw water transfer.

Feedback of local experience:

Jacques Chabaud FR PAPER

From the diagnosis to the management: the example of the Aude.

Yannis Gilbert FR PAPER

When the water savings allow the agricultural development the example of the Saint André à Roquebrun Canal ASA.

Hervé Roullin FR PAPER

No regret water savings: the example of the Saint Julien canal ASA.

Julie Fabre FR PAPER

Evolution of the guantitatives imbalances, adaptation to climate and anthropogenic change within two mediterranean basins. The Hérault and The Ebre.

Conclusion

Laurent Rov FR SPEECH

MONDAY - 14:00 - 17:30 - JOFFRE 5

WG CAFM WORKSHOP

Non-Structural Adaptations to Flood Management (by ICID - WG CAFM)

CHAIRMAN: Kamran EMAMI

The European Union implemented, in 2007 a directive on the assessment and management of flood risks. This directive has to be incorporated in the national laws and under this directive the member states have to prepare flood hazard maps and flood risk maps and flood risk management plans until 2015. So, all member states of the European Union have been very active in preparing flood maps/plans. Different experiences in other regions of the world exist with different kind of flood mapping as an important tool to manage flood risks. Other non-structural measures could help reduce the flood risk too. In nutshell, this will lead to a situation where communities would be better prepared and adapted to local flood risks. The aim of the workshop is to share these experiences and to study the different solutions adopted worldwide.

Emami Kamran ENG PAPER

ENSO based climate forecasting for early impoundment of large reservoirs, case study: Karkheh Dam in Iran.

Piergiorgio Manciola ENG PAPER

The Effects of Culverts in Hydraulic modeling for flood risk mitigation.

Suttigarn Arthon ENG PAPER

Adaptive flood management in Thailand : adjusted operation rule curves of dams.

Masumoto Takao ENG PAPER

Utilization of Flood Prevention Function of Paddies as an Adaptive Counter-measure.

Rakcheep Patsorn ENG PAPER

Reservoir Management of Banglang Dam for Flood Mitigation: The Case Study of Flood Situation in Pattani River Basin, 2014.

Bozorgi Ali ENG POSTER

A method to map flooding-prone areas in Iran using Landsat satellite images and GIS.

Lucio Ubertini ENG POSTER

Continuous and discrete numerical modeling: a comparison for flood inundation mapping.



You can consult all papers on the website of the Conference: icid2015.sciencesconf.org

Minakawa Hiroki ENG POSTER

Development of assessment tools for flood damage risk on paddies and its application to low-lying areas in Japan.

Mpandeli Sylvester ENG POSTER

An assess of flood vulnerability in Ntlhaveni Block D village, Malamulele North East, Limpopo Province, South Africa.

Piergiorgio Manciola ENG POSTER

A procedure for evaluating the vulnerability of hydraulic constructions in flood prone areas.

Nowroozy Sahar ENG POSTER

Flood Non-Structural Management with River Conservation and **Operations Works.**

Makvandi Ashraf ENG POSTER

Study of Sand and Gravel Mining Impacts on Floods in Hake River (Shazand City- Iran).

MONDAY - 16:00 - 17:30 - EINSTEIN

POSTER SESSION (1/2)

Two POSTER SESSIONS will give the stage to some authors who submitted to ICID 2015 Scientific Committee an abstract dealing interesting issues that couldn't be discussed during the scientific and technical sessions scheduled within the conference.

Authors will have three minutes to introduce themselves and deliver the key messages of their works while their POSTER appears on the screen

All Posters are exhibited in the Exhibition Space, speakers stay at disposal during the conference to exchange with participants. These two sessions are an opportunity for speakers to be identified by interested participants.

Cortós Torosa	FR	POSTER
Cortés Teresa	гк	PUSIEK

TOM® PVC-B0 pour l'irrigation.

Davidson Michael ENG POSTER

A New Paradigm for Sustainable Adoption of Advanced Irrigation in I DCs

Figueres Caroline	FR	POSTER

Données ouvertes et PPPs : convergence ou divergence en matière de développement ?

Hosseinzadeh Ghazi Chaki Zeinab ENG POSTER

Comparison of automated control systems for main canal of Qazvin irrigation network.

Jin-Yong Choi ENG POSTER

Evaluation for the application of WRF meteorological data on gridbased soil moisture model in upland.

Kovalenko Petro ENG POSTER

Mapping and evaluation of dryness conditions with GIS and remote sensing.

Lee Sung-Hack ENG POSTER

Estimation of stage-storage curve of unmeasured reservoir in South Korea.

Lingannagowda Savithramma ENG POSTER

Genetic variability for root traits and its association with the fruit yield in tomato (Solanum spp.).

Lingannagowda Savithramma ENG POSTER

Assessment of drought tolerance in Tomato germplasm based on quantitative indices (Solanum spp.).

Mouhouche Brahim FR POSTER

L'eau virtuelle des produits agricoles d'importation : un moyen de contrecarre le problème du manque d'eau en Algérie.

Rijal Krishna Prasad ENG POSTER

Improving Water Productivity on rice: principles and practices.

Sabri Ahmed FR POSTER

Valorisation de l'eau par la variété phoenicicole Majhoul conduite sous les conditions arides du Tafilalet au Maroc.

Shatkovsky Andriy ENG POSTER

State, perspectives and scientifical support of irrigation development in Ukraine.

Ghahreman Nozar ENG POSTER

Feasibility of sugarcane cultivation during the next five decades under RCP climate change scenarios (Case study: Khuzastan province, Iran).

J D Sophia ENG POSTER

Enhancing quality of distillery spent wash (DSW) through sequential adaptation of indigenous bacterial and algal consortium and its reuse potential for irrigation.

Oh Chansung ENG POSTER

Numerical Simulation on Hydrodynamic Characterization Changes Associated with the Stage of Internal Development Construction in Saemangeum Reclaimed Area.

Shabou Marouen ENG POSTER

Distributed large-scale unsaturated soil properties of a semi-arid area of Kairouan plain (Tunisia).

Park Namsik ENG POSTER

• Effects of saline groundwater pumping for mitigating sea water intrusion in coastal aquifers.

Tandjir Larbi FR POSTER

L'irrigation seule n'optimise pas les rendements des cultures.

TUESDAY, OCTOBER 13

TUESDAY - 9:00 - 12:30 - RONDELET 1-2

THEME DRIP (2/2)

CHAIRMAN: Johren FROEBRICH MODERATOR: Jean-Philippe VENOT

Bekkari Lahssan FR PAPIER

L'accès collectif à la technique de l'irrigation localisée dans les systèmes communautaires d'irrigation, analyse à partir d'études de cas au moyen Atlas, Maroc.

Kulkarni Suresh ENG PAPER

Challenges of Introducing Micro irrigation in Canal Irrigation Schemes in India.

Sofiyuddin Hanhan ENG PAPER

Process of adoption and adaptation towards sustainable implementation of micro irrigation (lesson learned from several dryland small holder farmers in Indonesia).

Coulibaly Rémi FR PAPER

L'irrigation goutte à goutte pour l'économie de l'eau : cas du Burkina Faso.

Khalifa Ahmed ENG POSTER

Introduction of family drip system for improving livelihood of small-scale farmers, north Kassala, Sudan.

Malota Mphatso ENG POSTER

Evaluation of the low adoption rate of drip irrigation in Malawi and leasons learnt from farmers experiences.

Lohanee Bashu ENG PAPER

Non-conventional method of irrigation for Livelihood enhancement (A case study of Micro-Irrigation Piloting in Ripin Dhotar Irrigation System).

Eamen Leila ENG POSTER

Role of Modern Irrigation Methods and Farmers' Participation in Agricultural Water Consumption Management of Urmia Lake Basin, Iran.

TUESDAY - 9:00 - 12:30 - SULLY 1

THEME REUSE (2/2)
CHAIRMAN: Tom SOO / MODERATOR: Bruno MOLLE

Deshmukh Santosh ENG PAPER

Monitoring and simulation of wastewater irrigation dynamics in the vadose zone.

Datta Aviraj ENG PAPER

Assessing the performance of free water surface constructed wetlands in treating domestic wastewater: a potential alternative for irrigation.

Bouzit Madjid ENG PAPER

Valuing treated wastewater and reuse: a review of applications and issues for further actions.

Declercq Rémi ENG PAPER

Socio-economic interests of treated wastewater reuse in agriculture: Clermont-Ferrand case of projects' costs-benefits analysis.

De Sanctis Marco ENG PAPER

Municipal wastewater reuse in agriculture by an innovative reactor with low environmental impact.

Patil Mukund ENG PAPER

Decentralized Wastewater Treatment System for Safe Reuse of Wastewater as Business Model in Rural Area.

Tilak Amey ENG PAPER

Assessing the Potential of Ageratum conyzoides in Constructed Wetlands for Treating Domestic Wastewater.

Pollice Alfieri ENG PAPER

Reuse of treated municipal wastewater as a sustainable approach to irrigation and fertirrigation in Mediterranean countries: a case study.

Juwarkar Asha ENG POSTER

Phyto-treatment Technology for Wastewater Reuse in Agriculture.

Borgarino Jean ENG POSTER

Design and testing of an emitter dedicated to treated waste water distribution: From fluid mechanics simulation to prototyping.

TUESDAY - 9:00 - 12:30 - SULLY 2

THEME GOUV (2/2)

CHAIRMAN: Jean VERDIER / MODERATOR: Olivier PETIT & Marcel KUPER

Closas Alvar ENG POSTER

No carrots, no sticks? Limits to the implementation of regulatory tools to control and manage groundwater over-abstraction in the Arab world.

El-Agha Doaa ENG POSTER

Below the radar: the boom of groundwater use in the Nile Delta.

Aarnoudse Eefje ENG POSTER

Surface water supply as an indirect measure to regulate groundwater use: a case study in Northwest China.

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You can consult all papers on the website of the Conference: icid2015.sciencesconf.org

Arturo González ENG POSTER

Governance and management of aquifers in Mexico.

Yuksel Hasanbasri ENG POSTER

Drought Management in Central Part of Turkey with special reference to recent drought effect experienced on water resources.

Gungor Aysen ENG POSTER

Water Governance and Groundwater Management Approaches in Turkey.

Basharat Muhammad ENG POSTER

Assessment of the performance and conjunctive management of surface water and groundwater supplies : a case study of Indus Basin irrigation.

Chang-Chi Cheng ENG POSTER

Water Governance for Drought/Water-Scarcity in Taiwan - a Multi-Layer Management System.

Altchenko Yvan ENG PAPER

Mapping irrigation potential from renewable groundwater in Africa : a development perspective.

Franklin Bradley ENG PAPER

Solar Irrigation Pumps in India: Can Power Buy-Back Ensure Sustainable Groundwater Use?

Del Vecchio Kévin FR PAPER

Lire les appropriations territoriales du problème de « surexploitation » des eaux souterraines à travers la mise en œuvre des « contrats de nappe » au Maroc.

Lepercq Daniel FR PAPER

Gestion des nappes phréatiques en amont du Marais Poitevin : coexistence d'une agriculture performante et d'un milieu naturel remarquable.

Fayrap Aynur ENG PAPER

Agricultural groundwater management in Turkey.

Amichi Farida FR PAPER

De l'archipel oasien à l'eldorado pionnier.

Ruf Thierry FR PAPER

Comment se sont adaptés les agriculteurs de la zone d'El Guerdane à la diminution de l'accès à l'eau et à la mise en place d'un système de distribution d'eau pour l'irrigation localisée ?

TUESDAY - 14:00 - 17:30 - RONDELET 1-2

■ WG CROPS WORKSHOP (1/2) Precision Irrigation (by AFEID and ICID WC CROPS)

CHAIRMAN: Ragab RAGAB / MODERATOR: Pierre RUELLE

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.

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.

Sharing country experiences based on aspects of precision irrigation will be key to the success of this workshop.

El Mokh Fathia ENG PAPER

Assessment of on-farm vegetable crop response to drip-irrigation scheduling with saline water in the southern Tunisia.

Nagaz Kamel ENG PAPER

Impact of deficit irrigation on yield and fruit quality in orange (Citrus Sinensis L. Osbeck, CV. Meski Maltaise) in southern Tunisia.

Lin Yi-Ju ENG PAPER

• The impact of management practice on yield and irrigation water use efficiency for paddy rice under shortage environment.

Seidel Sabine ENG PAPER

Automated soil water tension-based drip irrigation for precise irrigation scheduling.

Jean Jacques Weber FR PAPER

Expérimentation du goutte à goutte sur la culture de maïs dans le sud-ouest de la France : enseignements et perspectives.

Tangara Brehima FR PAPER

Irrigation goutte à goutte, une technologie appropriée pour la production de la patate douce en zone sahélienne (Mali).

Mahjoubi Arash ENG PAPER

Estimation the soil Salinity of Sugarcane Root Zone in Different Management of Irrigation and Drainage Using SaltMod in the Imam Khomeini Agro-Industry.

Amna Tanveer ENG PAPER

• Evaluation of irrigation schedulling using real time soil moisture monitoring system.

Malamasuri Kadasiddappa ENG PAPER

Determination of optimum water requirement under drip irrigation by various water production functions in rabi maize (Zea mays L.) at southern peninsular region of India.

Duttarganvi Shantappa ENG PAPER

Management practices for water conservation, enhanced productivity and methane mitigation in irrigated lowland rice.

Yilma Wubengeda ENG PAPER

Determining of Optimal Irrigation Regimes and NP Fertilizer Rate for Potato (Solanum tuberosum L.) at Kulumsa, Arsi Zone, Ethiopia.

Albasha Rami ENG PAPER

Performances of subsurface drip irrigation for maize under Mediterranean and temperate Oceanic climate conditions.

Khalifa Ahmed ENG PAPER

Comparison of surface and drip irrigation regimes on growth and yield of banana (Musa AAA) in Gezira, Sudan.

Gasmi Ines ENG PAPER

Impact of drip irrigation and buried diffuser systems on water conservation and pepper crop yields in greenhouse.

TUESDAY - 14:00 - 17:30 - SULLY 1

■ AFEID - WG PQW ROUND TABLE (REUSE) Waste water reuse : time for solutions! (by AFEID and ICID WG PQW)

CHAIRMAN: Akissa BAHRI / MODERATOR: Nicolas CONDOM & Samia EL GENDY The success of the wastewater reuse projects in agriculture is based on technical feasibility, economic viability, social acceptability, agronomic and environmental sustainability, and also on their abilitt to respond to agricultural production targets under water and climate constraints. Noting that reuse is a complex and an eminently multi-actors issue requiring adaptations to the local context, the objective of this multistakeholders round table is to address the issue of the reuse of wastewater in agriculture with an integrative approach, "solutions" oriented, highlighting and articulating inspiring experiences that illustrate how obstacles to agricultural reuse projects have been overcome. The objective is also to contextualize these "solutions" to specify whether their application framework is general or specific to a climate, regulatory, economic or social particular context. The following experiences will be presented shortly to debate together

the two questions :
Which are the best practices, technologies and methodologies to

Which are the best practices, technologies and methodologies to create effective, safe and cost effective water reuse chains?
Can we successfully reuse raw or low treated water ?

Ouedraogo Salifou

Les micro-jardins en République de Djibouti ou une pratique agricole dans un contexte de rareté des terres et de l'eau utilisant les eaux usées domestiques.

Purwadi Hanugrah

Utilization of Urbanized Waste Water for Irrigation. Case: Wadaslintang Irrigation Area (31,853 Ha), Central Java, Indonesia.

Van Der Laan Michael

Irrigation as part of an acid mine drainage treatment strategy.

Savey Pierre

PROJET NOWMMA - New process for Optimizing Wastewater Reuse from Mauguio to the Mediterranean area.

Beraud Jacques

La réutilisation des eaux usées traitées : une ressource alternative pour l'agriculture de l'arrière-pays provençal ?

Farag Hanan

Kafer El-Shiekh -Delat-Egypt.

Serezat Dimitri

Carto Reuse: a webplatform to share experiences.

Hayek Bassam

Decentralized integrated sludge management: developing the approach in Jordan.

Sadi Ali

North Gaea Emergency Sewage Treatment project – NGEST-Recovery and Reuse Scheme.

Pierre-Louis Mayaux

Building on existing conditions: the Settat experiment, Morocco.

TUESDAY - 14:00 - 17:30 - BARTHEZ 1

WG SDG WORKSHOP

Future of drainage under environmental challenges and emerging technologies (by AFEID and ICID WG SDG) CHAIRMAN: Bernard VINCENT

Sustainable drainage management at both resource and system level is not only an important requirement in support of global food production, but also for the livelihood of the rural population and for environment. Excess water control (in both irrigated and rainfed regions), soil salinization and sodic soil control (in both cases of poor irrigation management and in case of fashioned deficit irrigation), soil acidification control (in tropical or Nordic humid regions), flood control, drought control, re-use and multiple use of water, surface and underground water quality, ecosystems preservation, creation or control of biodiversity are the keywords related to drainage water management.

All these roles and services are often dramatically neglected. Therefore a crucial question that need to be answered is what may be the new technologies in drainage management to meet the environmental challenges.

Wu Jingwei ENG PAPER

Shall we adjust drainage strategies to water-saving practices- a case study in China. CID2015 Conference

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Vincent Berr		NG P	APER	

Simplified hydrological and nitrogen transfer modeling in a subsurface drained Catchment (Orgeval, France) and undrained catchment (Porijögi, Estonia).

TUESDAY - 14:00 - 17:30 - BARTHEZ 2

WG HIST WORKSHOP

History of water crisis, old and recent issues (by AFEID and WG HIST)

CHAIRMAN: Kamran EMAMI / MODERATOR: Thierry RUF

At the start of the 21st century, in many regions, water crisis seems to be one of the most complex issues for humankind. In this context, the water wisdom of the past can be regarded as previous experiences of many generations who face the great challenge of looking for adaptations for ensuring sustainable development.

Ruf Thierry ENG PAPER

History of the participatory irrigation management and the transfer of management authority: science issues, general governance and local actions to solve water crisis.

Emami Kamran ENG POSTER

The synergy of history and El Niño Southern Oscillation for enhanced drought and flood management.

Backeberg Gerhard ENG PAPER

Sustainable irrigation in South Africa: Evidence from history.

Jones Bruce ENG PAPER

Water Management and Mismanagement in Early China.

Piergiorgio Manciola ENG PAPER

The San Patrizio well: an alternative and defensible solution to the roman water supply systems.

Agrawal Rajnikant ENG PAPER

Rainwater harvesting in Ancient Times and its Sustainable Modern techniques.

Sudan Falendra Kumar ENG PAPER

Water Conflict and Cooperation between India and Pakistan: Opportunities and Challenges for Ensuring Food Security.

Maughan Nicolas ENG PAPER

Water crises management in Marseilles in the early 19th century: specificities and temporalities of socio-political answers (1800-1850).

Ansari Taha FR PAPER

La préservation des foggaras dans la province d'Adrar en l'Algérie.

Fahimullah Ziaee ENG PAPER

• Water Wisdom and Sustainability: Insights from Irrigation Systems in Afghanistan.

Marco Arcieri ENG PAPER

Aqua Augusta: a system of aqueducts from the first century B.C. serving the Gulf of Naples.

Prechawit Chaiwat ENG POSTER

History of water crisis in thailand and its preparation for the 2015 drought.

Lucio Ubertini ENG POSTER

Hydraulic risk perception of Trasimeno lake: historical and actual issues.

Tan Chih-Hung ENG POSTER

Water Wisdom in Taiwan-Irrigation Ponds on a Tableland.

Goel Vratish ENG POSTER

Flood Control Management in Siem reap River Basin, Cambodia.

Agrawal Rajnikant ENG POSTER

Smart Water for Smart Cities in India.

Siddiqui Qazi ENG POSTER

Balloki Barrage in Pakistan-World Heritage Irrigation Structure.

Abou El Hassan Waleed ENG POSTER

Actual Changes in the Irrigation Management with 30 Year Improvement Project: A Case of the Dakalt District in the Nile Delta.

WEDNESDAY, OCTOBER 14

WEDNESDAY - 9:00 - 15:30 - RONDELET 1

IRRIGATION AND ENERGY WORKSHOP (by AFEID and CSIC Cordoba)

CHAIRMAN: Gilles BELAUD / MODERATOR: Luciano MATHEOS

Compared to the traditional gravity-fed irrigation systems, most modern systems are energy consumers. Irrigation energy footprint and cost are increasing steadily. Therefore, it is not surprising that, more and more, farmers and water users associations are engaged in active research and negotiations to reduce energy consumption, increase energy efficiency, and reduce energy costs and tariffs. On the other hand, on-farm energy generation, such as hydraulic energy, solar energy, geo-energy and bio-energy, is another option that farmers and water users associations are investigating and testing to reduce their energy dependence and cost. More specific energy saving measures are: optimization of the design and operation of pumping stations to minimize investment and energy cost; identification and correction of critical points in the network that are responsible for extra energy consumption; network sectoring for water rotation by grouping hydrants according to homogeneous energy demand. Irrigation & energy is therefore a multi-faceted multiple-actor issue. Technical, economic and environmental aspects are linked in many ways involving farmers, water users associations, energy suppliers, engineers, and other stakeholders

The objective of the workshop is to open a forum where researchers can show their research outcomes, where all actors can discuss their interests, where innovation finds a medium to flow and spawn. The workshop could also be the seed of a new working group on irrigation & energy.

Rafael González Perea ENG PAPER

Reducing the energy demand in irrigation water supply systems. Experiences from southern Europe.

Salem Osama ENG PAPER

Prospects of Concentrated PhotoVoltaic (CPV) System in Wadi El natron Area, Egypt.

Elshaikh Sami ENG PAPER

Enhancing hydraulic performance and energy saving of pumps using Computational Fluid Dynamics (CFD).

Maruejols Franck ENG PAPER

• Optimisation énergétique du système BRL.

Lejars Caroline ENG PAPER

What are the indirect and direct effects of irrigation policy on energy costs? A social accounting matrix assessment in Tadla (Morocco).

Prevost François FR PAPER

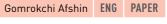
Réalisation et exploitation d'une microcentrale : modalités d'un partenariat durable entre l'ASCO des irrigants de la Crau et la Société du Canal de Provence.

Ben Elghali Seifeddine ENG PAPER

An analysis of energetic cost for an irrigation network in France.

CID2015 Conference

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Modeling Energy Saving in Operation of Pressurized Irrigation Systems.

Yildiz Gülagaci Remziye ENG PAPER

Assessment Of Change From Existing Irrigation System To Pressure Irrigation System in SAP Region in the Framework of Value Engineering.

Sethi Davinder ENG PAPER

Innovative Solar-Powered Solutions for Agriculture.

Aliod Sebastian Ricardo ENG PAPER

Algorithms and tools for optimum scheduling of on-demand irrigation for an effective energy cost reduction.

Mateos Luciano ENG PAPER

Irrigation pumping efficiency at smallholdings in North East Brazil.

Anwar Nadjadji ENG PAPER

▶ Water allocation optimization for combined users of energy generations and irrigation demands at the upstream Brantas River reach using mixed integer linear programming method.

Gendre Sophie ENG PAPER

Hydraulic irrigation installation diagnosis: knowing of the system to improve it.

Graziano Ghinassi ENG PAPER

Carbon Footprint of three different irrigation systems.

Zapata Nery ENG PAPER

Collective irrigation network design and management for energy optimization: the CINTEGRAL tool.

Pandey Divya ENG PAPER

Harnessing the sun for an evergreen revolution: A study of solar powered irrigation in Bihar, India.

Buisson Marie-Charlotte ENG PAPER

What does pump sets electrification change? Impacts on cropping patterns, productivity and incomes in West Bengal.

Auger Vincent FR PAPER

Modernisation de périmètres irrigués dans le nord ouest argentin.

Farag Hanan ENG POSTER

Drip Irrigation System for Maize to Reduce Food, Water and Energy Scarcity in Egypt.

WEDNESDAY - 9:00 - 12:30 - BARTHEZ 1

WG CROPS WORKSHOP (2/2)

Precision Irrigation (by AFEID and WG CROPS) CHAIRMAN: Ragab RAGAB / MODERATOR: Pierre RUELLE

Patil Sachin ENG PAPER

Hydraulic study, design & analysis of different geometry of emitter labyrinths used in drip irrigation for clog free performance.

Putthividhya Aksara ENG PAPER

Water Requirements and Irrigation Scheduling of Ban Khai Irrigation Project Using GIS and CropWat Model in Rayong Province Thailand.

Roux Andre ENG PAPER

FruitLook: A spacial approach to assess and improve water use efficiency of vineyards and deciduous fruit crop orcahrds in South Africa.

Heydari Nader ENG PAPER

Designing precise surface irrigation systems.

Elbably Alaa ENG PAPER

Advanced irrigation technology for enhancing field water use efficiency and precision irrigation for rice (a case study-Egypt).

Ragab Ragab ENG PAPER

Can measurements of actual evapo-transpiration and large-area soil moisture deficit improve irrigation scheduling to reduce water use?

Hartani Tarik ENG PAPER

• Low pressure subsurface irrigation with permeable pipes for a precision and optimal irrigation management.

Li Jiusheng ENG PAPER

Field test of system performance of a variable rate center pivot applying to winter wheat irrigation.

Kaluvai Yella Reddy ENG PAPER

Sensors for water monitoring in paddy fields for improved on farm water management.

Bourziza Rqia ENG PAPER

Modeling of water transfert of subsurface drip irrigation under oases conditions.

Wu Ray-Shyan ENG PAPER

In the Precision Irrigation Model of Paddy Field - A Case Study in Chang-hua, Taiwan.

Ghazouani Hiba ENG PAPER

Using Hydrus-2D model for irrigation scheduling of potatoes crop under subsurface drip irrigation in Central Tunisia.

Admasu Zeleke Belay ENG PAPER

Effect of drip lateral spacing and irrigation schedule on drip irrigated crops: tomato and onion production, Kobo Girrana valley, Ethiopia.

Patil Mukund ENG PAPER

Simple and Farmers' Friendly Decision Support System for Enhancing Water Productivity in Agriculture.

Wang Ruo-Qian (roger) ENG PAPER

A Novel Bio-inspired Pressure Compensating Emitter for Low-Cost Drip Irrigation Systems.

Randev Ashwani ENG PAPER

Economic analysis of crops' productivity potential and drip irrigation system in India - Policy Implications.

Perniola Michele ENG PAPER

Sustainable use of water ressources for food security.

Abou El Hassan Waleed ENG PAPER

Validation of accurate determination of maize water requirements in Nile Delta

Yildiz Gülagaci Remziye ENG POSTER

Salinisation dynamics and solution suggestions in soil of Harran Plain irrigation projects.

Mukhamedjanov Shukhrat ENG POSTER

Adaptation to climate change in irrigated agriculture.

Gaafar Ibrahim ENG POSTER

Assessment of irrigation water management in Nasrallah Area, Damanhour Governorate, Egypt.

Anwar Nadjadji ENG POSTER

Optimization of Nipah reservoir operation for irrigation using linear programming.

Elmaghraby Taha ENG POSTER

Effect of compost on Maize (Zea mays) yield and some clay soil physical properties under deficit irrigation.

Barakat Mohammad ENG POSTER

Influence of the irrigation technique on the nitrogen budget: a review.

WEDNESDAY - 9:00 - 12:30 - JOFFRE 5

WG ENV WORKSHOP

Ecosystem Services and Multi-Functionality of Irrigation and Drainage Systems (by AFEID and WG ENV)

CHAIRMAN: Sylvain PERRET

Irrigation and drainage systems worldwide interact with complex, dynamic and diverse environments which include physical, chemical, ecological, climatic, social, human and economic dimensions, Environmental sustainability is a moving target which evolves as the complexities of the 'Nature' unfold, as new societal challenges emerge. The three pillars of 'Green Revolution', - high yielding varieties, chemical inputs like fertilizer and pesticides, and irrigation - have had a definite positive outcome in terms of increased food production, which prevented hunger in many parts of the world. But it also had negative impacts on the environment. The way water in general and water for agriculture in particular is managed, may harm the environment in a variety of ways: groundwater depletion; land degradation and water contamination: depletion of resources; and loss of ecosystem services, biodiversity, and habitats. However, most irrigation and drainage systems also produce a number of goods, services and positive amenities, which benefit local communities and societies at large.

ICID has long been concerned with the environmental impacts of irrigation and has been addressing the issues. In order to bank upon, the ICID Working Group on Environment (WG-ENV) was established in 2008 with the objective to provide guidance to policy makers, planners, designers, and managers in the irrigation and drainage sector on the environmental aspects of drainage and irrigation systems. Those aspects encompass environmental, social, and economic impacts of agricultural water systems, both positive and negative ones.

Damien Jourdain ENG PAPER

Value of Ecosystems Services provided by Rice Irrigated Agriculture: A case study in Thailand.

Ricart Casadevall Sandra ENG PAPER

Stakeholders, multi-functionality, and governance: how to manage competing water uses and improve decision-making processes in three Southern European irrigation systems.

Chiueh Ya-Wen ENG PAPER

How much does 1 degree celcius worth? The economic value of paddy field heat sink effect evaluate by the contingent valuation method.

Abdullah Mohd Yazid ENG PAPER

Case Study for Monetary Assessment of Flood Control and Sediment Control Function of Paddy Fields in Muda Irrigation Scheme, Malaysia.

Antonín Zajícek ENG PAPER

Harmonize various types of ecosystem services of agricultural drainage systems in the Czech Republic using preventice and remedial nitrogen strategies.

Morardet Sylvie ENG PAPER

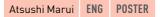
Exploring trade-offs between irrigation and other water-related services in a Mediterranean watershed: A deliberative valuation approach.

Yoon Kwangsik ENG PAPER

> Evaluation of Multi-Functionality of Agricultural Water in Korea by AHP method.



You can consult all papers on the website of the Conference: icid2015.sciencesconf.org



Experimental Study of Swimming Characteristics of Japanese Rice Fish (Oryzias latipes latipes) for paddy-field Fishway Design.

Aoda Tadao ENG POSTER

Breeding of the Environmental Awareness of Citizen through Dragonfly Investigation at Niigata, Japan.

Soonthornnonda Puripus ENG POSTER

An Optional Approach for Flood Mitigation and Avoiding Groundwater Depletion in Thailand: A Review of the Conjunctive Water Management.

Nakvachara Penpicha ENG POSTER

The Socio-Environmental Impacts of Water Resource Restoration Projects Taken at Some Local Areas in Thailand under Decentralized Management.

WEDNESDAY - 14:00 - 15:30 - EINSTEIN

POSTER SESSION (2/2)

Abbas Muhammad ENG POSTER

• On Farm Irrigation Practices and Climate Change Effects on Economic Growth.

Agele Samuel ENG POSTER

Drip irrigation strategies for enhancing water productivity and hydrological assets of tropical wetland-based farming for food security.

Aliod Sebastian Ricardo ENG POSTER

Advance optimum design and analysis tools for drip irrigation hydraulics in complex limiting conditions.

Babitska Olena ENG POSTER

Directions of drainage systems improvement in the South of Ukraine.

Barbe Audrey ENG POSTER

> Water management in the Tiout Oasis, Morocco: friction between tourism development and agricultural improvements.

Bondarik Irina ENG POSTER

Integrated use of ground water in agriculture.

Changjo Oh ENG POSTER

Development of Smart Water Management System using IoT Technology.

Chiueh Ya-Wen ENG POSTER

Evaluation of the farmers' willingness to accept price for transferring Agricultural water to industrial sectors during drought - The application of Contingent Valuation Method.

Choi Joongdae ENG POSTER

Effect of selected structural and non-structural BMPs on agricultural NPS pollution reduction in Korea.

Fayrap Aynur ENG POSTER

The Experiences of Modern Irrigation Systems and Methods in Turkey.

Jan Ming-Young ENG POSTER

The simulation of water demand and supply scenarios by using the system dynamics tool.

Jang Jeongryeol ENG POSTER

Pre Survey Results for Establishing of Governance to Manage Agricultural Nonpoint Source Pollution in Saemangeum Area.

Jang Jeongryeol ENG POSTER

Monitoring and Modeling NPS Pollutant Loads in the Reservoir Irrigated Paddy Block.

Jomaa Ihab ENG POSTER

The Alarming Unsustainable Use of Groundwater Resources in Lebanon.

Ker Rault Philippe **ENG POSTER**

Wastewater Reuse for Irrigation in Saline Arid region: lessons learnt from Algerian Sahara desert.

Kouadri Sameut Moussa ENG POSTER

The new irrigation with saline groundwater and artichoke production in Lower Cheliff (Algeria).

Kumnerdpet Wachiraporn ENG POSTER

Local initiative for integrated governance of surface water and groundwater.

Maria Laura Luprano ENG POSTER

Removal of antibiotic resistance genes by two innovative wastewater treatment solutions for water reuse in agriculture.

Oladipo Isaac ENG POSTER

Development of Computer Aided Drip Irrigation Design System for Nigerian Agricultural Environment.

Ongkosongo Otto Sudarmadji ENG POSTER

Strategies to combat coastal erosion and inundation in resilient low coastal land.

Putthividhya Aksara ENG POSTER

Agricultural Contamination in Soil and Groundwater from Irrigated Farmland in Thailand: Risk Implications for Sustainable Agriculture and Food Safety.

Rizk Nancy ENG POSTER

Chemical and biological clogging within pipes and emitters using treated waste water in irrigation.

Saboory Mohammad Shoaib ENG POSTER

Determining Potential Sites of Water Harvesting Structures using Multi-Criteria Evaluation and GIS in Khulm Watershed, Afghanistan.

Sakata Satoshi ENG POSTER

> Sprinkler irrigation for preventing heat wave effects on rice.

Soleymani Mirmahdi ENG POSTER

Status of green water in North Khorasan Province.

Villholth Karen ENG POSTER

Global food production: the contribution of groundwater and depleting aquifers.

Wafae Elkhoumsi ENG POSTER

Contribution of saline groundwater table to date palm water use in oases area.

Yuttaphan Aphantree ENG POSTER

Probability of Dry and Wet Spells in Northern Part of Thailand during El Niño. La Niña and Normal Events.

Zare Bahari Mostafa ENG POSTER

Water management and economic affect in Determination of Irrigation Network area Case Study: Shorijeh irrigation project.

Goel Vratish ENG POSTER

Quantitative assessment of surface water resources in Sankuru river basin, DR Congo.

16:00 - 18:00 - EINSTEIN

CLOSING CEREMONY Master of Ceremony: François BRELLE

16:00

Beginning of the Closing Ceremony • Speech of Sami BOUARFA, President of ICID2015 Scientific Committee

16:10

Sessions Reporting • Sessions key messages by sessions chairmen

17:20

Invitation for WIF 2

Speech of Lertviroj KOWATTNA, President of Thai Committee

17:30

Sahel Irrigation Initiative Program Presentation

• Allocution de Amadou MOUSSA (ARID), François ONIMUS (World Bank), Djimé ADOUM (CILSS)

18:00

End of the Closing Ceremony Speech of François BRELLE

THURSDAY, OCTOBER 15

THURSDAY - 9:00 - 17:30 - JOFFRE 1

PPP WORKSHOP

Public-Private Partnerships (by the World Bank, the French

Agency for Development and AFEID)

CHAIRMAN: Francois BRELLE / MODERATORS: Nicolas DAURENSAN, **Etienne DRESSAYRE & Florence MALERBE**

During the last ten years, food security has come back to center stage as a major challenge for future development. Efficient, effective and sustainable irrigation and drainage schemes can plays an important role to increase and stabilize agricultural production as well as boost economic development in rural areas. But irrigation and drainage development implies costly investments. Agricultural water management has also proved to be a challenge in many countries having to balance water rights, user rights and commercial interests. In this context, PPPs have been used as one of the tools to accelerate irrigation expansion, improve operation and maintenance services, and look at establishing a sustainable operations and maintenance regime that is less dependent on public subsidies. In addition, the introduction of the private sector can inject expertise and foster agricultural intensification.

The bringing together of public policies with reliable private partners through these partnerships can, in various forms, be a way to facilitate the financing of projects, optimize investments, professionalize irrigation water delivery service and intensify the food production. The Workshop on Public-Private Partnerships in irrigation aims at presenting and discussing contrasting PPP experiences in irrigation, showcasing successes and failures, so as to identify conditions under which financial and institutional arrangements could be defined in order to meet the objectives of the different stakeholders involved.

Format of the Day:

The day has been designed as an interactive platform in which different views from both the public and the private sector can be exchanged in an open and candid forum. The morning starts with two presentations aimed at providing some overarching issues related to the irrigation and drainage sector, highlighting the challenges of the sector, its recent trends and future prospects for partnerships between the public and private sectors. Given the pre-eminent experiences of the French irrigation and drainage sector these are highlighted through a historical perspective leading up to today's challenges, as well as setting out the future prospects for the sector.

The afternoon sessions are comprised initially of a 'Posters' exhibition in which a comprehensive array of projects have been selected to provide participants with the opportunity to learn about such varied experiences. Participants are expected to walk around an open floor where the projects posters will be exhibited and familiarize themselves with the different experiences in PPPs. The posters will present the most salient features of each project, and will provide an opportunity to have interactive discussions with the parties involved in each project. These cases will then be referred to during the two afternoon panel sessions.

The panel sessions after lunch will be seeking to highlight the different perspectives of the public and private sector when entering into PPPs in irrigation and drainage. These sessions will be panel discussions in which critical players will be present for each round table. A moderator will present panelists with a multitude of questions that seek to address the different perspectives and viewpoints that both the public and private sector have. The day will end with a wrap up session that will summarise how well (or not) the different expectations from both the public and private sector are met, and whether there are new points of view that can be integrated to better improve the design, development and sustainability of PPPs in irrigation.

You can consult all papers on the website of the Conference: icid2015.sciencesconf.org

9:00 - Introductory remarks

by Francois Brelle, AFEID President and Chairman of the Day

9:10 - Keynote

Reflection of Irrigation PPPs around the world and the new irrigation PPP toolkit

By Cledan Mandri-Perrott and Jyoti Bisbey (PPP unit, World Bank Group)

10:00

French model of PPP in irrigation : BRL, CACG and SCP, 3 Regional Water System concession-holders, operators and developers. By Etienne Dressayre (BRL), Nicolas Daurensan (CACG) and Florence Malerbe (SCP)

11:00 - Coffee Beak

11.30

Worldwide PPP cases presented through a Posters exhibition

13:00 - Lunch

14:00 - Round table 1

Public perspectives: Expectations about PPPs in irrigation, challenges for its implementation and how to ensure long term sustainability.

This session is designed to discuss what are the expectations that public entities typically have with respect to PPPs in irrigation. Issues related to the planning aspects prior to entering into a PPP will be discussed including aspects of the political economy and the challenges granting authorities have when planning and taking to market PPPs.

15:45 - Round table 2

Private Perspectives: What are the typical conditions that the private sector looks at when entering into a PPP?

After having heard the public perspective in the previous round table, this session will seek to explore what are the main drivers of the private sector. This will start by exploring what are the minimum preconditions that a private party would look at prior to entering into a PPP, especially in Irrigation. It will then look at aspects of investment, mobilisation of resources and technical expertise seeking ultimately to understand what are the drivers for their long-term involvement in the sector.

17:15 - Wrap up and conclusions

Innovate to Improve Irrigation Performance

VISITS

TECHNICNAL AND CULTURAL

TECHNICAL TOURS

POND OF MONTADY

Wednesday, October 14, 2015 | 9:00-12:30

Departure: Montpellier's Corum (Level 0) Place: Pond of Montady | Supervisor: Thierry Ruf Target Audience: All participants, particularly the ICID Working Group on History (WG HIST) and the ICID Working Group on Drainage (WG SDG) Accessibility: Free and open, subject to availability.

PROGRAM AND DETAILS

The Pond was drained in 1247. The phylloxera crisis (around 1870) then shaped the wine-making vocation of Montady. The Pond's natural form as a closed basin allows many vines to be submerged, which was an efficient method to fight the plague. In order to increase protection of the vineyard, a gravity irrigation network was installed in 1881 that draws water from the Midday Canal. The introduction of new crops, especially fodders and vegetables, that require more water, let to the installation of a second irrigation network after 1960 (by the BRL society). It consists of underground water supply pipes that pressurized water to allow it to spray. Moreover, cultivation of this area was further enhanced by its proximity with major communication routes (Roman Way, Midday Canal, Railway).

NOWMMA PROJECT

Well

Wednesday, October 14, 2015 | 9:00-12:30 Departure: Montpellier's Corum (Level 0)

Place: Mauguio (34) | Supervisor: Bruno Molle Target Audience: All participants, particularly the researchers of the W4CROP Project and the ICID Working Group on use of poor quality water for irrigation (WG PQW) Accessibility: Free and open, subject to availability.



PROGRAM AND DETAILS

Visit to the Mauguio site, with its platform of dedication to the development of the reuse of treated wastewater (collaborative project NOWMMA). This station responds to the demographic evolution and common activities of Mauguio and Mudaison (Hérault, France). Its construction integrates the flood prone nature of the site, containment works (sound proofing, deodorization), an advanced treatment of the nitrogen and phosphorus in order to fight against the eutrophication of l'Etang de l'Or. After the transition through the rehabilitation of old lagoons in the environmental transit zone, the discharge of the treated water, takes place in either a Mediterranean waterway system ("Le Salaison") or in a bordering humid zone.

IRSTEA EXPERIMENTAL PLATFORM

Wednesday, October 14, 2015 | 9:00-12:30

Departure: Montpellier's Corum (Level 0) Place: Montpellier Lavalette | Supervisor: Patrick Rosique Target Audience: All participants and particularly the people interested by research activities Accessibility: Free and open, subject to availability.



PROGRAM AND DETAILS

PReSTI is the new plateform cerated by Irstea on the Lavalette site located in the vicinity of Montpellier. This platform is constituted of an experimental station that was established in 1989 and a lab that was recently transferred from the center of Aix-en-Provence.

The station has 5ha equipped for experimentation in irrigation. Automatic overpressure feeds the parcels with the water from the BRL network (Bas Rhône Languedoc, see the technical visit for 16/10/2015) to implement different irrigation systems such as drip irrigation, surface irrigation and sprinkler irrigation. The infrastructure is completed with measuring equipment for the water supply, the soil hydrodynamic, and the hydric and physiological condition of the crop. The field experimental work is also used to develop operational models of crops and of irrigation piloting as well as hydric transfers at the plot scale. The lab is equipped to conduct both tests for industry, R&D experiment and pure research on the performance of irrigation distribution systems, and the drivers of such performance changing over time, under climate influence or water quality. The main research focus could be summarized as follows:

 - in sprinkler irrigation the consequences of dispersion mechanism on the sensitivity of sprinklers to wind, its consequences on uniformity of distribution, evaporation and drift. In the case of drift the last investigations concerned the potential dispersion of aerosols out of the wetted area when applying treated waste waters in a reuse perspective - in drip irrigation the consequences of water quality (particles, nutrient) on drippers life duration. The work on the observation and simulation of flows in transparent drippers where particles may sediment, biofilm may develop and scaling may take place.

High level equipment will be presented for droplet size and path in sprinkler irrigation or flow analysis inside transparent drippers flowpath (IR rain gauge, PIV and PTV facility)

The aim of this infrastructure is to be support for the research lead within the Axe 3 of the UMR G-Eau "Practices and use of water" but also to work in partnership with industrial irrigation and agricultural organizations.



ICID2015 Conference



Wednesday, October 14, 2015 | 9:00-12:30

Departure: Montpellier's Corum (Level 0) Place: The Gignac Canal | Time slot: 9h-12h30 | Supervisor: Céline Hugodot Target Audience: All participants and particularly the people interested by research activities Accessibility: Free and open, subject to availability.

PROGRAM AND DETAILS

The ASA of the Gignac Canal is an Association located in the middle valley of the Hérault, 30 km north-west of Montpellier. It brings together landowners within a perimeter of 3000 ha.

The Authorized Syndical Association was founded in 1879. It aims to create and maintain a Canal derived from the Hérault River in order to supply water to the concerned perimeter.

With 50 km of transport networks (primary network) and 250 km of distribution networks (secondary network), it allows water to be taken from the Hérault River (the sole source) and to serve some 10,000 plots belonging to 4 000 members of the perimeter, spread over 11 municipalities. The irrigated area is occupied by 67% of vineyards and 22% of diversification crops or gardens. Approximately 10% of the perimeter is occupied by quarries and sandpits, at different stages of exploitation.

Historically gravity-fed and organized around a water tower, water distribution among users has been the subject of a modernization program since 1990. The program aims to eventually implement a full conversion of networks towards a continued water supply under pressure. This modernization is required due to the scarcity of water resources and the need to organize the sharing between different users (drinking water, swimming, tourist use, fishing, aquatic needs, and irrigation). It consists of conversion of gravity-fed aboveground distribution networks to buried pipelines under pressure.

Beyond the ecological interest, this modernization is an important factor for local development in agriculture, as well as for other uses (recreational use, use of raw water for industrial processes). It allows for a significant reduction in water withdrawals (efficiency gain), and enhances ease of use by adoption of innovative irrigation systems (infield drip irrigation, fertirrigation, automation of watering systems, etc.). In 2015, nearly 40% of the perimeter provides distribution under pressure (overpressure at minimum 2 bar, with 150 micron collective filtration), one third of the perimeter is equipped with underground pipes allowing a continued water service without pressure and only 30% still operates traditionally. The modernization program (Canal Contract) is expected to be finalized in 2018.

During this technical visit you will discover the Canal intake in the Hérault River at la Combe du Cor and an overpressure station in a recently modernized sector.



REGIONAL WATER SYSTEM: AQUA DOMITIA PROGRAM AND THE RHÔNE WATER TRANSFER STRUCTURES



Departure: Montpellier's Corum (Level 0)

Places: Mauguio, Nîmes, Fourques, Bellegarde Target public: addressed to all participants of the Conference Accessibility: 50 € Organizer: BRL Group, the Languedoc-Roussillon Regional Water System

concession-holder and the asset manager in charge of modernizing and extending the water system (Aqua Domitia program)

PROGRAM AND DETAILS

Aqua Domitia: a major project to secure water supply in the Languedoc-Roussillon Region

The Aqua Domitia program is the most important project for the extension of the Regional Water System since its creation. It provides nearly 150 km through buried pipelines as a second resource to guarantee the long-term satisfaction of the water needs of about one hundred towns between Montpellier and Narbonne in a sustainable manner. Its implementation within the framework of the Regional Public Water Service, launched by the Languedoc-Roussillon Region in 2011, aims to reconcile economic development and environmental protection. It is composed of 6 links (Maillon Sud, Maillon Nord and Ouest Montpellier, Maillon Nord Gardiole, Maillon Biterrois, Maillon Littoral Audois and Maillon Minervois).

During the visit the participants will discover one of the projects in progress on the South Montpellier link. It concerns the creation of a new pumping station on the site of la Méjanelle (Mauguio). This station will allow the pressurization of the entire Aqua Domitia project.





Key-pieces of the Regional Water System

The Rhône waters transfer structures are key-pieces of the Regional Water System, owned by the Languedoc-Roussillon Regional Council, designed and managed by BRL.

During the visit, the participants will discover the intake structure, equipped to take up to 75m³/s from the Rhône River, and the Aristide Dumont station, the most important of 80 pumping stations which puts pressure on the network. Equipped with 9 pumps of 2 to 7m³/s, this structure helps to raise the water from the Rhône and to transfer it into the Philippe Lamour canal to serve the 60 km of plains and littoral zone up to Montpellier, and into les Costières canal, then into Campagne canal to serve the Nîmes region on 26 km.

Interest of the sites

Designed and managed by BRL, the structures of the Regional Water System play a major role in the economic development of the Languedoc-Roussillon Region. They protect the territories they supply from droughts and provide for the future capacity to reduce the pressure on local weakened resources, through the provision of alternative resources with high capacity for renewal.

The program of this visit includes: presentation of the Aqua Domitia program / Visit to one of the projects in progress (Mauguio) / Visit of the intake in Fourques (Gard) near Arles / Visit of Aristide Dumont pumping station in Bellegarde (Gard) / Presentation of the remote monitoring system managed by BRL / Overview of Philippe Lamour canal.

DINNER & RECEPTION

THAI RECEPTION

Monday, October 12, 2015 | 19:00 Place: Corum | Accessibility: Free Target Audience: Open to any registered guest invited by the THAICID

DETAILS

Thai cocktail organized by the Thai National Committee on Irrigation and Drainage (THAICID).

GALA DINNER

Wednesday, October 14, 2015 | 19:00 Place: The Château de Pouget | Accessibility: 50€ Target Audience: Open to any registered person with invitation



CHÂTEAU DE POUGET

DETAILS

The Gala Dinner is the most important social event of the ICID2015 Conference. It will be held on the evening of the 14th October 2015 in the marvelous Château de Pouget. With delicious French cuisine and musical performances and entertainment, it will be the occasion for you to have a little break in the middle of the week.



ICID2015 Conference

MEXICAN RECEPTION

Tuesday, October 13, 2015 | 19:00 Place: Corum | Accessibility: Free Target Audience: Open to any registered guest invited by the MXCID

DETAILS

Mexican dinner organized by the Mexican National Committee on Irrigation and Drainage (MXCID)

MENU

Marinated vegetables and red mullet, citron dressing

*** Salmon filet with fresh mint in crispy pastry

Roquefort (blue cheese) on crushed walnuts, bed of lettuce and muscat sirop

> *** Lemon meringue on breton shortbread red berries and basil sauce

For special menus please contact us directly: icid2015@irstea.fr

Wine is offered by Les Vignerons de la Vicomté www.vicomtedaumelas.fr

CULTURAL VISITS

SAINT-GUILHEM-LE-DÉSERT AND CLAMOUSE'S CAVES

 \bigcirc Monday, October 12, 2015 | From 14:00 to 18:00 Departure: Montpellier's Corum (Level 0) | Accessibility: 30 € Target Audience: Any registered participant, particularly accompanying persons

DETAILS

Accompanied by a guide, you will discover one of the most beautiful villages of France. This medieval town is a spiritual step on the way to Saint Jacques de Compostelle, home of the splendid old Abbey Gellone (11th century). You will discover this picturesque village and meet many amazing artisans walking around the village. The day will end with a visit of the famous Grotte de Clamouse. Discovered in 1945, its galleries were forged over many millenniums leaving us a legacy of subterranean marvel, unique in diversity and rarity of its consecrations.

CARCASSONNE

Tuesday, October 13, 2015 | From 9:00 to 18:00 Departure: Montpellier's Corum (Level 0) Accessibility: 60 € Target Audience: Any registered participant, particularly accompanying persons

DETAILS

Carcassonne is a fortified Medieval City different from any other European city due to its dimensions and its state of preservation. You will discover its impressive fortifications, visible far off in the Aude countryside, and visit the extraordinary 12th century Count's Castle. This masterpiece of Gallo-Roman and medieval architecture is classified as a world heritage site of UNESCO. You will discover the most visited fortified city in Europe and its ramparts during an audio guided tour. Lunch at a restaurant, in the heart of the medieval city.

AIGUES-MORTES

(\mathbf{D}) Wednesday, October 14, 2015 From 9:00 to 12:30 Departure: Montpellier's Corum (Level 0) | Accessibility: 30 € Target Audience: Any registered participant, particularly accompanying persons

DETAILS

34

You will explore the fortifications of the medieval town of Aigues-Mortes. In the heart of the Camargue, between beaches and vineyards, you will wander around the city of St. Louis and its ramparts, and admire the unique panoramic view over the Camargue wetlands and vineyards. The visit will end with a guided tour of the Salins du Midi. You will cross the salt table in a little train discovering the famous Camargue salt. Visit of the Salt museum.

TOURISTIC VISIT MONTPELLIER

Ŏ Wednesday, October 14, 2015 From 14:00 to 16:30 Departure: Montpellier's Corum (Level 0) | Accessibility: Free Target Audience: Any registered participant





DETAILS

HALF-DAP

The Organizing Committee is happy to suggest that all participants experience this free visit to the historic center of Montpellier. On a comfortable little train you will discover the heart of the city with all of its medieval charm: the place Comédie, the Pevrou Gardens, Saint Anne and Saint Roch, Arc de Triomphe, etc.

You will discover the treasures of the city in friendly and original atmosphere and will get to keep an unforgettable souvenir from this visit!

PROGRAM

Four separate departures at 14:00, 14:15, 14:45 and 15:00. Each visit will last 40 minutes.

SAINT-GUILHEM-LE-DÉSERT

AIGUES-MORTES

PONT DU GARD



NIMES AND PONT DU GARD

Thursday, October 15, 2015 | From 9:00 to 18:00 Departure: Montpellier's Corum (Level 0) | Accessibility: 60 € Target Audience: Any registered participant, particularly accompanying persons

DETAILS

The day will begin with a tour of the famous Pont du Gard. You will then be taken to the Canal du Passage where you will be served lunch. Following, a guided audio tour of the roman city of Nîmes will be offered to you. During this tour you will discover the historic center of the city. The city is famous for its Bullfighting and Roman architecture, and its magnificent arena will surprise you. After this fabulous visit you will watch a film to be screened at "La Maison Carré de Nimes". Finally, you will view the exceptional panorama of the city from the top of the Tour Magne

SÈTE

FULL-DA Friday, October 16, 2015 | From 9:00 to 18:00 Departure: Montpellier's Corum (Level 0) | Accessibility: 60 €

Target Audience: Any registered participant, particularly accompanying persons

DETAILS

You will discover the city of Sète on the city bus tour with a guide. You will admire panoramic views of Sète, Mont Saint Clair's cross and white stones and Le Pycemetery (where Georges Brassens rests). You will have lunch at La Calangue Restaurant. You will then take a boat trip to discover another aspect of Sète. The day will end with a muscat degustation at the cooperative of Frontignan.

ICID2015 Conference

TOURISTIC WEEKEND

From Saturday, October 17, 2015 until Sunday, October 18, 2015 Departure: Place de l'Europe in Montpellier | Accessibility: 330 € **Target Audience: Any registered participant**





DETAILS

Saturday, October 17, 2015

Departure at 10:00 from the place de l'Europe in Montpellier to join the hotel Mercure at la Grande Motte. Free time in the morning and lunch. Meeting at 13:30 at the hotel to begin the visit with the team from "Camargue Autrement". You will explore the local fauna and flora. During the adventure, a Camargue bull breeder will welcome you for a gourmet break. We will continue the trip across the rice fields. We will then be received in the bicentenary mas with regional wine degustation. With an environmental approach, we offset our CO² emissions. We will arrive at the hotel at 18:00.

Sunday, October 18, 2015

Breakfast at the hotel. Departure at 11:00 for a one-hour sea trip to discover the Mediterranean landscape.

Departure from la Grande Motte at the beginning of the afternoon for Montpellier.

ACCOMMODATION

The Mercure La Grande Motte welcomes you for the weekend. It is a 4 star hotel. Double or single rooms are available with breakfast.

SÈTE

Innovate to Improve Irrigation Performance

INFORMATIONS

USEFUL INFORMATIONS CORUM'S FLOOR PLANS

USEFUL INFORMATIONS



Venue

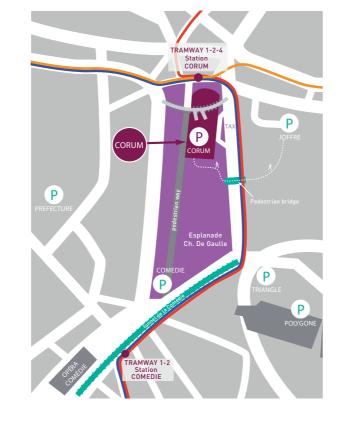
The ICID2015 Conference will take place at the Corum Conference Center, located at the heart of the Mediterranean city of Montpellier, France.

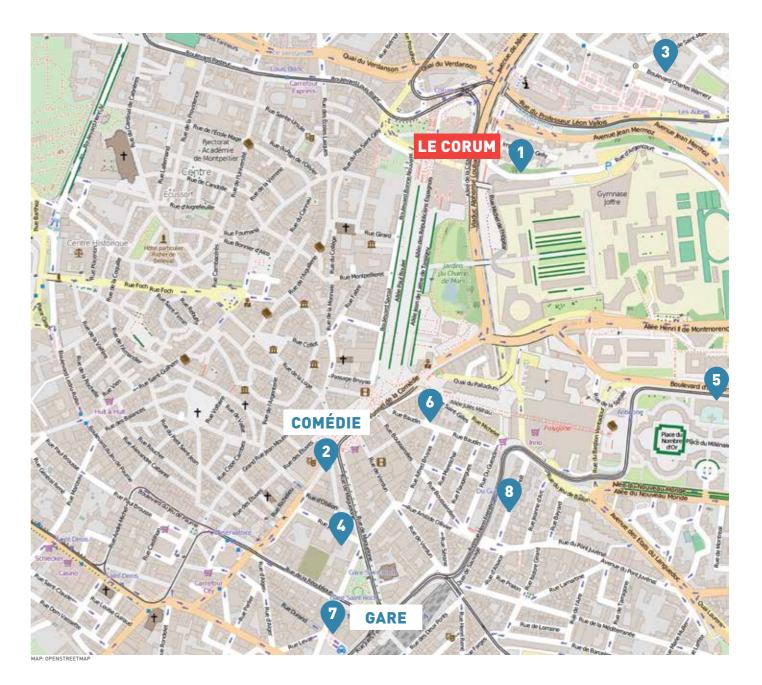
Le Corum Esplanade Charles de Gaulle 34000 Montpellier More information: www.montpellier-event.com

About Montpellier

Situated in the south of France between the Mediterranean Sea and mountains, Montpellier, the city where the sun shines 300 days per year, is the ideal destination to discover one of the most beautiful regions of France.

You can explore the historical center named "Ecusson" with its Place de la Comédie in the heart of the city, and its charming medieval streets filled with artists and numerous cafés and restaurants. Discover Saint Pierre Cathedral and the oldest Medical University in Western Europe, Peyrou with its beautiful royal place and its statue of Louis XIV. A city of a thousand facets, both modern and historical, young and dynamic, it welcomes numerous festivals, concerts and exhibitions. Montpellier is the place where the climate, the history and the southern French landscapes combine with the famous Mediterranean lifestyle, to make the ICID2015 Conference a unique event.





Getting to the Corum is easy!

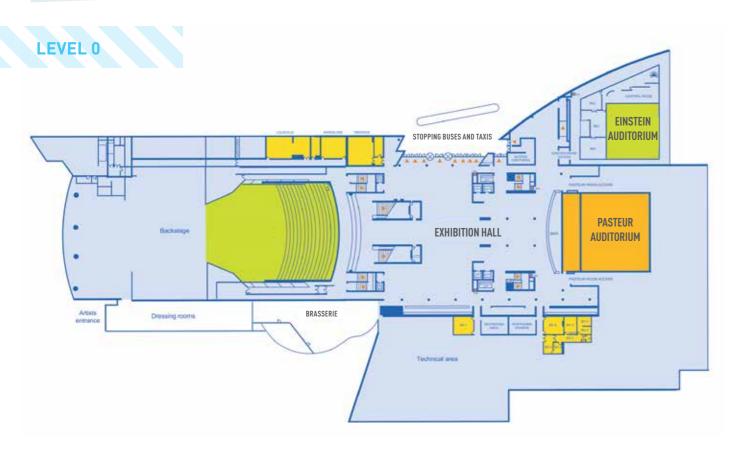
You will find an inexpensive local tramway system that can connect you to all parts of the city. Do not hesitate to consult the city map included in your Conference Kit. Several tram lines stop near the Corum, and all ICID2015 Conference hotels are within walking distance of the Venue.

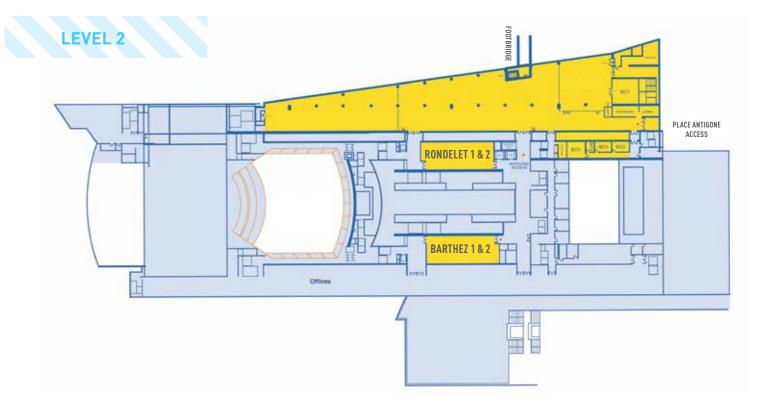
ICID2015 Conference

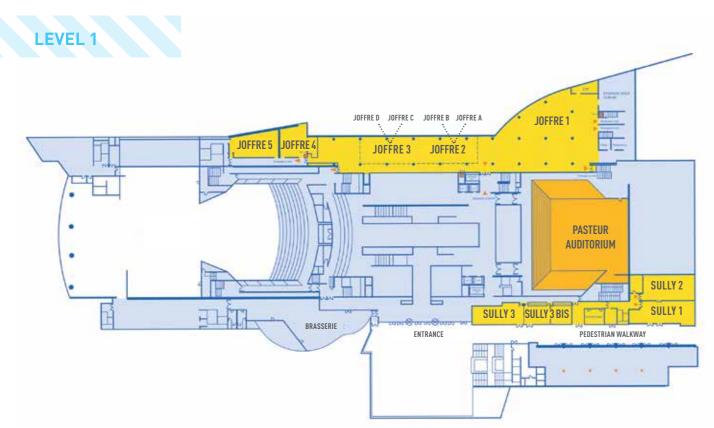
Hotels

- Crowne Plaza 4*
- Crand Hotel du Midi 4*
- Hôtel Ulysse 3*
- Royal Hotel 3*
- Appart'Hotel Citadines Antigone 3*
- Hôtel Ibis Styles 3*
- Appart'Hotel Odalys les Occitanes 3*
- Hôtel Eurociel

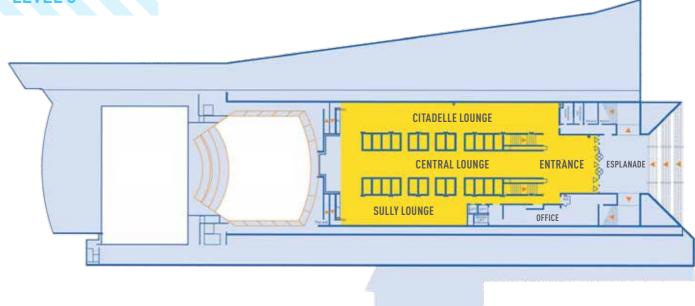
CORUM'S FLOOR PLANS







LEVEL 3



ICID2015 Conference

EXHIBITION

EXHIBITION

INTERNATIONAL COMMISSION ON IRRIGATION AND DRAINAGE (ICID)



Web site: www.icid.org Contact: Central Office | 48 Nyaya Marg - Chanakyapuri, New Delhi 110 021 - India | Tel: +91-11-26115679; 26116837 | Fax: +91-11-26115962 E-mail: icid@icid.org

The International Commission on Irrigation and Drainage (ICID), established in 1950 is the leading scientific, technical and notfor-profit Non-Governmental Organization (NGO). ICID, through its network of professionals spread across more than a hundred countries, has facilitated sharing of experiences and transfer of water management technology for over half-a-century. ICID supports capacity development, stimulates research and innovation and strives to promote policies and programs to enhance sustainable development of irrigated agriculture through a comprehensive water management framework.

Mission and Purpose: The mission of ICID is to stimulate and promote the development and application of the arts, sciences and techniques of engineering, agriculture, economics, ecological and social sciences in managing water and land resources for irrigation, drainage, flood management, for achieving sustainable agriculture water management.

ICID is dedicated to enhance the world wide supply of food and fibre for all people and believes that food security at various levels: global, national, local and household, and provision of assured livelihood starts with stable agriculture production. ICID encourages public private partnership in development and management of water resources.

BRL GROUP



Web site: www.brl.fr Contact: Jean-François Blanchet, General Director Tel: +33 (0)4 66 87 50 00 | Fax: +33 (0)4 66 84 25 63 E-mail: brl@brl.fr

The BRL Group - A designer-builder and operator of large irrigation schemes in France and abroad

In France, BRL is a concession mandated Regional Development Company. As such, our experience is similar to a PPP agreement.

In Languedoc-Roussillon, BRL designed and still manages (until 2051) all the infrastructure in a large-scale raw water system belonging to the Regional Council. The water system is composed of 105 km of canals, 4 dams and reservoirs, 80 pumping stations, 6 water treatment plants and almost 5 000 km of buried pressure pipes. By 2020, the Aqua Domitia pipeline project, engineered and run by BRL, again with full asset management and operation responsibility, will be extending the system to 150 km, compensating for the effects of climate change and responding to changing local demands. So far, it is the largest project of its kind in France.

In the last 60 years, BRL has equipped more than 120 000 ha for irrigation. Thanks to the Regional Water System, the BRL Group supplies more than half the irrigated area in the region and is providing for the irrigation of another 4000 ha, mainly thanks to Aqua Domitia.

In Morocco, BRL is a shareholder in AMENSOUSS, the concession grantee in charge of the construction, operation and maintenance (for 30 years) of the El Guerdane citrus farming scheme (10 000 ha). In Ethiopia, BRL is in charge of developing Megech and Ribb irrigation schemes (18 000 ha) in the frame of a management contract covering irrigation scheme design, construction supervision and scheme operation and maintenance for 6 years.

CACG (COMPAGNIE D'AMÉNAGEMENT DES COTEAUX DE GASCOGNE)



Web site: www.cacg.fr Contact: Tel: +33 (0)5 62 51 71 49 E-mail: contact@cacg.fr

For more than 50 years, the CACG has worked daily to effectively implement development projects. Its ambition is to develop regions while respecting the environment, sharing resources and enhancing local economies.

Drawing on its know-how, the CACG adjudicates the sharing of water resources between agricultural and industrial users and environmental needs.

The CACG has built its regional development approach around the issue of water resources and proposes innovative solutions involving better management of resources, finding non-traditional water resources, optimizing irrigation and studying new management scenarios.

Beyond technological innovations (remote management systems, remote monitoring systems, data sharing via Internet, development of decision-support software, etc.), we are developing a social and economic policy for management of water resources which has a positive influence on both economy and environment.

THE SOCIETE DU CANAL DE PROVENCE (SCP)



Web site: www.canal-de-provence.com Contact: Franck Sanfilippo | Tel: +33 (0)4 42 66 70 59 E-mail: mci@canal-de-provence.com

In its capacity as Regional Development Company, the Société du Canal de Provence contributes to hydraulic development in the Provence region. It also fulfils a public service mission through sustainable water management, both quantitative and qualitative, and through the supply of water to farmers, towns and villages, industries and private individuals living in rural areas within the reach of its concession.

As well as working closely with farmers in Provence, SCP offers its expertise to public and private customers both in France and in other countries:

• feasibility study, design and implementation of hydraulic development projects,

• management of and technical support for the operation and maintenance of hydraulics infrastructures,

• support for decision-makers (irrigation policies, development strategies, water management),

• support for Water Users Associations (WUA) : training and skills transfer, irrigation techniques, design, supply and implementation of equipment at the plot level.

IRSTEA



Web site: www.irstea.fr Contact: Dominique Rollin | Tel: +33 (0)4 67 04 63 37 E-mail: dominique.rollin@irstea.fr

Irstea, the National Research Institute of Science and Technology for Environment and Agriculture, is a Public Scientific and Technical Research Establishment (EPST) coming within the purview of the Ministries of Research and Agriculture. Its multidisciplinary, actionoriented approach to research and expertise in support of public policy involves strong partnerships with French and European universities and research organisations, economic entities and public authorities. The Institute is a founding member of AllEnvi, the National Alliance for Environmental Research, and the European PEER (Partnership for European Environmental Research) network. Irstea has been endorsed by the Carnot Institute since 2006.

AGRALIS



Web site: www.aqualis-technology.com www.agralis.fr Contact: Jean-François Berthoumieu Tel: +33 (0)5 53 47 24 00 E-mail: jfberthoumieu@agralis.fr

Agralis works with professionals involved in water management, irrigation and fertigation, weather monitoring, climate change, agronomy, and soil conservation.

Whether you are a researcher, farmer, manager of green spaces, or environmental engineer, Agralis aims to satisfy you by implementing technical solutions adapted to your business.

Agralis is the exclusive distributor of Sentek capacitance probes for Francophone countries. These probes measure soil moisture, temperature and salinity through the entire soil profile with sensors placed every 10cm. Innovative installation methods result in minimal disturbance of the measurement site.

Sentek Capacitance probes are flexible and adaptable to mutliple dataloggers (available protocols include SDI-12, Modbus over RS232 / RS485, ...).

Sentek also produces dataloggers, including the All-in-One - the first telemetry system without a solar panel in the Sentek range: Quick and easy to install.

Always innovating, our experts have developed a new concept for the automation of irrigation from measurements in situ: Aqualis.

Aqualis connects to soil, weather or environmental sensors, and allows remote control of your irrigation and fertilization in response to local conditions. The controller connects M2M over free band radio, GPRS or Ethernet. Thus, water is supplied according to plant consumption

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and their requirements, and can be automated directly from our web interface www.aqualis.fr

Agralis works with you throughout project implementation and ongoing measurement campaigns, by providing users with training, installation, irrigation consultation, and maintenance.

DECAGON DEVICES EUROPE



Web site: www.decagon.com Contact: David Galibourg | Tel: +33 (0)4 72 19 19 49 E-mail: david.galibourg@decagon.eu

Decagon Devices specializes in the design and manufacture of in situ soil moisture sensors and loggers. The sensors are buried at different locations and depths in the soil profile in order to monitor changes in soil moisture, enabling to make better decisions on irrigation practices. We also manufacture environmental monitoring sensors that can be used to measure the microclimate in a field or orchard, in order to calculate the localized evapotranspiration for that area.

DEMAND SIDE INSTRUMENTS



Web site: www.dsinstruments.fr Contact: 102 Bis, Rue de l'Arquette - 14000 Caen - France Tel: +33 (0)9 53 20 81 75 Frédéric Villain, Président & CEO Tel: +33 (0)6 02 17 13 61 Laure Gebert, Directrice Marketing et Innovation Tel: +33 (0)7 82 13 94 79

Demand Side Instruments (Demand Side) is a start-up technology company created in 2013 in Caen, France.

At Demand Side, we envision that Internet of Things technology is the technological driver for smart decision to preserve natural resources, deploy societal progress and serve sustainable agriculture.

Demand Side designs modular, easy to program, open source, endto-end and cost optimized machine-to-machine (M2M) system solutions. Our pioneering solutions based on the re-use of the wireless broadcast technology and networks enable to benefit from a robust, reliable and long range connectivity at a minimum cost.

The company currently addresses three market sectors with solutions offering significant long range and low cost operational advantages:

1. Smart agriculture (smart irrigation and water flow management, wise and rational farming)

2. Smart City (smart lighting, smart parking, smart road and street traffic, air pollution)

3. Smart Energy Transition (distribution network balance management, demand side management, renewable energy management).

EXHIBITION

GACHES CHIMIE SPECIALITES

Groupe GACHES CHIMIE

Web site: www.gaches.com Contact: Carinne Mangeruca Tel: +33 (0)5 61 44 67 67 E-mail: cmangeruca@gaches.com

GACHES CHIMIE offers chemicals and related services in several fields, and more particularly for water treatment: drinking water, process water, irrigation and swimming pools.

The company has developed GARO®Filtre, a filter media produced with granular recycled glass from waste glass collection.

It is used in substitution of sand in all sand filters whose applications range from swimming pool water treatment, process or drinking water production to wastewater tertiary treatment and irrigation.

NAANDANJAIN IRRIGATION



Web site: www.naandanjain.com Contact: Anthony Seches (G.M. France) Tel: +33 (0)5 61 99 85 09 | Fax: +33 (0)5 61 99 27 38 E-mail: anthony.seches@naandanjain.fr Amir Bar (V.P. Business Development) Tel: +972 8 9442180 | Fax: +972 8 9442190 E-mail: amirbar@naandanjain.com

With over 70 years of experience, NaanDanJain designs high quality, tailor-made irrigation solutions that deliver increased productivity per unit of resources. Our expertise drives higher crop yields, minimizes risks, and saves precious non-renewable resources.

NaanDanJain Irrigation Ltd. is the leading global provider of customized irrigation solutions. The company offers the widest range of cost-effective and customized technologies across more than 100 countries worldwide.

With nine subsidiaries, five international manufacturing plants, and a multinational network of sales representatives, the company has a strong presence on all continents. Implemented by highly trained professionals, NaanDanJain irrigation technologies comply with stringent ISO 900: 2008 quality and engineering standards.

The company's solutions are based on extensive know-how accumulated by a world-renowned team of agricultural experts, design engineers and technicians. The result is a cost-effective product portfolio, tailored to meet the challenging requirements of farmers worldwide.

NETAFIM



Web site: www.netafim.fr Contact: Bruno Montagnon | Zone Novartis - quartier Jean de Bouc - 330 route Départementale 6C - 13 120 Gardanne - France | Tel: +33 (0)4 42 66 83 53 Fax: (+33) 04 42 66 87 86 E-mail: info@netafim-fr.com

Netafim is the global leader in drip and micro-irrigation solutions for sustainable productivity. With 28 subsidiaries, 16 manufacturing plants and over 4,000 employees worldwide, Netafim delivers innovative solutions in over 110 countries across the globe. Founded in 1965, Netafim pioneered the drip irrigation revolution, creating a paradigm shift toward low-flow agricultural irrigation. Today, Netafim offers a wide range of state-of-the-art irrigation and complementary solutions for agriculture, landscaping and mining. From drippers and dripperlines, through sprinklers and micro-emitters, to crop management technology (CMT) and greenhouse systems, Netafim's market-leading products and services enable cost-effective irrigation for optimal and sustainable results.

OYAS ENVIRONNEMENT



Web site: www.oyas-environnement.com Contact: Bidault Frédéric | Tel: +33 (0)4 99 65 27 90 | Cell: +33 (0)6 34 07 08 28

E-mail: f.bidault@oyas-environnement.com

Oyas[®] - Autonomous and environmentally friendly irrigation system Oyas[®], the best for your plants watering ! Oyas are buried microporous ceramics.

Filled with water, they slowly diffuse needed moisture to plants This constant watering and without excess avoids stressing the plants. It keeps substrate soft and wet and promotes the development of fauna and microflora.

It also prevents the growth of weeds because the top layer of the ground is not irrigated.

The main assets of Oyas[®] Exceptional water savings (50-70%) Water supply 3 times less common (water tank)

Simple and fast filling

Natural, decorative, for inside and outside

A company environmentally oriented and ethical

We do not sell clay pots, we try to change the world

• Allowing each to reduce its water consumption by reducing watering

his plants. Water is a precious resource that becomes scarce.

• By promoting local and artisanal economy. We have chosen to produce in France, in the potters' village of Saint-Jean-de-Fos.

- S, M, L or XL, natural or enamelled, a complete range for all plants
- Oyas Pots that water for you.

FRENCH WATER CLUSTER PÔLE EAU



Web site: www.pole-eau.com Contact: Jean-Loïc Carré | Tel: +33 (0)4 34 88 34 43 Fax : +33 (0)4 34 88 34 49

« The synergy of water industry strengths and skills for innovation » French Government and regional authorities have funded the international French water cluster. Pôle EAU associates research institutions, educational organizations and companies from South of France (regions Languedoc-Roussillon, Midi-Pyrénées and Provence-Alpes-Côte d'Azur) to create value through innovative projects in the water sector. The aim of the World Competitiveness Cluster in Water is to develop and export technology as well as French know-how worldwide, and to deploy an ambitious strategy of global influence and reinforce international networks.

SDEC FRANCE



Web site: www.sdec-france.com Contact: M. Raphaël Peno-Mazzarino Tel: +33 (0)2 47 94 10 00 | Fax: +33 (0)2 47 94 17 13 Cell: +33 (0)6 07 85 68 91

E-mail: raphael.peno-mazzarino@sdec-france.com

SDEC-France, company specialized since 20 years in the measurement instrumentation for agriculture and environment, offers you a wide range of tools for your measurement and monitoring needs, both in research and agriculture.

Thanks to the involvement and expertise of its 40 employees, SDEC France is a privileged partner for customers of public or professionals organizations, research institutes, universities, consulting firms and farmers.

Our range of sampling / measuring instruments and Decision Making Tools: WEATHER $% \mathcal{M}_{\mathrm{S}}$

- Agromet weather stations (irrigation management, disease, ET,..)
- Compact and autonomous dataloggers
- Portable Instruments
- GROUND
- Soil moisture sensors TDR and capacitive
- Tensiometer and soil water samplers
- Compaction meters soil
- Soil pH and EC-meters
- Augers and samplers (manual and motorized)

PLANT

• Growth monitoring instruments (light radiation, nutrients, chlorophyll)

- IPM and disease modeling tools
- WATER
- Level and quality loggers for groundwater and surface water
- Associated telemetry systems
- Groundwater sampling equipment
- Softwares for hydrogeology

ICID2015 Conference

SWELIA



Web site: www.swelia.com Contact: Yvan Kedaj, Délégué Général 672 Rue du Mas de Verchant - Montpellier - France Tel: + 33 (0)4 34 88 34 50 | Fax: + 33 (0)4 34 88 34 52 E-mail: coordination@swelia.com

Solutions for a quality and optimized use of Water in Agriculture an Agro-Industries

With more than 110 member companies, Swelia is the premier expert network operating in the full water cycle; Swelia member companies area of competences encompass the identification, catchment, treatment, distribution, irrigation, analyses and control, water monitoring, and the reuse of all types of water.

The aim of SWELIA is the economic development of its member companies (mostly Small and Very Small companies) through the development of collective and integrated solutions.

Solutions related to agricultural water uses and issues are developed by more than 30 SWELIA Member Companies engaged in the development of integrated solutions for agricultural water, irrigation, aquaculture, agro-industries and water reuse and recycling, in France and abroad.

SWELIA is active member of ADEPTA, Mediterranean Water Institute, French Water Partnership, and founding member of France Water Team, Pôle EAU, PEXE and MEDEF International.



Afghanistan	FAHIMULLAH Ziaee	Ministry Of Water
Afghanistan	SABOORY Mohammad Shoaib	Water, Land And Environmental Engineering
Algeria	ABDELKRIM Noureddine	Universite Hassiba Benbouali Chlef
Algeria	AHMED Elaichi	FFE
Algeria	AKKACHA Abderrahmen	Universite Hassiba Benbouali de Chlef
Algeria	AMICHI Farida	CIRAD
Algeria	BELHAMRA Mohamed	CRSTRA Biskra
Algeria	BRAHIM Mouhouche	Ecole Nationale Supérieure Agronomique (Ensa) Ex Ina El-Harrach, Alger
Algeria	CHERKI Brahim	Univ. Tlemcen
Algeria	HARTANI Tarik	Université Tipaza
Algeria	KOUADRI SAMEUT Moussa	Université De Chlef
Algeria	LAIB Khalil	Université Tipaza
Algeria	NAOURI Mohamed	Université Tipaza
Algeria	OULD REBAI Abdelkrim	Université Tipaza
Algeria	SMATTI Soufiane Nadhir	SNS
Algeria	TANDJIR Larbi	Univ. 20 Aout 1955
Australia	BALLARD Clarke	ICID
Australia	HEUVEL Kathleen Maree	
Bangladesh	MOHAMMAD Shahabuddin	Bangladesh Water Resources Development Board (BWDBD)
Belgium	DE WEVER Heleen	VITO
Burkina Faso	ADOUM Djime	VIIO
Burkina Faso	COULIBALY Rémi	Comité National des Irrigations et du Drainage du Burkina
Burkina Faso	DANKOULOU Abdoul Karim	Connie National des in rigations et du Dramage du Burkina
Burkina Faso	FARID Traore	APEFE
Burkina Faso	GUIRE Alassane	
Burkina Faso	HAMIDOU Ko	Ministère de l'Agriculture et des Ressources Hydrauliques Comité Permanent Inter-États de Lutte contre la Sécheresse dans le Sahel (CILSS)
Burkina Faso		PABS0
Burkina Faso	KARAMBIRI Salamata KEITA Amadou	2IE
Burkina Faso Burkina Faso	KIWALLO Laurent KO Hamidou	Bagré Pôle
		Ourite National des Instantions et du During au
Burkina Faso	OUANGO Dayende Francois	Comite National des Irrigations et du Drainage
Burkina Faso	OUEDRAOGO Adama	
Burkina Faso	OUEDRAOGO Clement	CILSS
Burkina Faso	OUÉDRAOGO Elisée	Banque Mondiale
Burkina Faso	ZANGRE B. V. C. Adolphe	Min. agriculture Université de Liège- Gembloux Agro-Bio Tech
Cameroun	MAGA Guy Parfait	ACID
Canada	HELGASON Warren	Canadian National Committee On Irrigation And Drainage (CANCID)
Canada	MADRAMOOTOO Chandra	Mcgill University
Canada	MURRAY David	Canadian Water Resources Association
Canada	TOLLEFSON Laurie	Agriculture&Agrifood Canada
Chad	BECHIR Mahamat Bechir	Projet Sahel Irrigation (Siip) Tchad
Chad	KELEYO GOLNDEY Kouramailaou	
Chad	TCHOUADANG Kadjonga	Direction Générale du Génie Rural et de l'hydraulique Agricole
China	DANG Ping	Ministry Of Water Resources
China	DING Kunlun	China Institute Of Water Resources And Hydropower Research
China	DONG Bin	Wuhan University
China	GAO Zhanyi	China Institute Of Water Resources And Hydropower Research
China	GUO Kaixian	Qinghai Water Resources And Hydropower Technology Development Co., Ltd
China	HAN Haiyan	Qinghai Water Resources And Hydropower Technology Development Co., Ltd
China	HE Wenling	Qinghai Water Resources And Hydropower Technology Development Co., Ltd
China	LI Jiusheng	China Institute Of Water Resources And Hydropower Research
China	LI Runjie	Qinghai Water Resources And Hydropower Technology Development Co., Ltd

China	MU Jianxin	China Institute Of Water Resources And Hydropower Research
China	RUOXI Li	Chinese National Committee On Irrigation And Drainage
China	TIAN Fuqiang	
China	WANG Shaoli	China Institute Of Water Resources And Hydropower Research
China	WANG Wenqing	Qinghai Water Resources And Hydropower Technology Development Co., Ltd
China	WEN Jun	Qinghai Water Resources And Hydropower Technology Development Co., Ltd
China	YANG Jifu	China Institute Of Water Resources And Hydropower Research
China	YANG Xiaohui	Qinghai Water Resources And Hydropower Technology Development Co., Ltd
China	YU Yingduo	
China	ZHAI Xuejun	Haihe River Water Conservancy Commission
China	ZHANG Baozhong	China Institute Of Water Resources And Hydropower Research
China	ZHANG Guohua	China Irrigation And Drainage Development Center
Czech Republic	ZAJÍCEK Antonín	Research Institute For Soil And Water Conservation
Djibouti	ROBLEH Houssein Rirache	Date Ministry Of Environment
Egypt	AMER Mohamed Hassan	National Water Research Center - Ministry Of Water Resources
Egypt	ASHRAF EL SAYED Ashraf	Draiange Research Institute
Egypt	CLOSAS Alvar	lwmi (International Water Management Institute)
Egypt	DOAA El-Agha	International Water Management Institute
Egypt	EL GENDY Samia	Ministry Of Water Resources & Irrigation
Egypt	ELSAMMAN Tarek	National Water Research Center
Egypt	FETYAN Khaled	Mechnical And Electrical Reserch Institute
Egypt	HASSAN ABOU EL HASSAN Waleed	ENCCID
Egypt	HUSSEIN BEHAIRY Zeinab	Ain Shams University
Egypt	IBRAHIM MOHAMED ABDEL- FAT- TAH MOHAMED Ibrahim	Soils, Water And Environment Research Institute (SWERI), Agriculture Research Center (ARC).
Egypt	NOFAL Eman Ragab	National Water Research Center
Egypt	OSAMA MOHAMED ALY SALEM Osama	National Water Research Center
Egypt	WAHBA Mohamed	Egyptian National Commeette
Estonia	PUU Hannes	Statutes Of The Agriculture Board (Estonia)
Estonia	TONISMAE Mati	Ministry Of Agriculture Of Estonia
Ethiopia	BAYU Nuru	MOWE Ethiopie
Ethiopia	BELAY ADMASU Zeleke	Government Organization
Ethiopia	MERSHA Adey Nigatu	
Ethiopia	WONDIMU Tekle	MOWE Ethiopie
Finland	AIJO Helena	Finnish Field Drainage Association
Finland	KOIVUSALO Harri	Aalto University School Of Engineering
Finland	MIKA Turunen	Aalto University School Of Engineering
Finland	VIRTANEN Seija	Finnish Drainage Foundation
France	ADAMCZEWSKI Amandine	CIRAD
France	AIT MOUHEB Nassim	IRSTEA
France	AMICHI Hichem	IRSTEA
France	AUGER Vincent	BRL
France	AUZIER Pascal	ASCO Du Canal De L'isle
France	BAGOUDOU Dijella	CACG
	BARBE Audrey	Institut Des Régions Chaudes
France	BARONE Sylvain	IRSTEA
France		
	BARRETEAU Olivier	IRSTEA
France	BARRETEAU Olivier BELAUD Gilles	IRSTEA Montpellier Supagro
France France		
France France France	BELAUD Gilles	Montpellier Supagro
France France France France	BELAUD Gilles BEN ELGHALI Seifeddine	Montpellier Supagro LSIS -Aix-Marseille Université

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France	BONNOT Julien	SCP
France -	BOUARFA Sami	IRSTEA
France	BOUZIT Madjid	BRGM
France	BRELLE François	SCP
France	BREMOND Pauline	IRSTEA
France	BUISSON Marie-Charlotte	CGIAR-IWMI
France	CARBONNEL Philippe	Departement de l'Hérault
France	CARRA Denis	Egis Eau
France	CARRÉ Jean-Loïc	Pôle Eau
France	CHIRON Serge	IRD
France	CITEAU Jean Michel	BRLI
France	CLOAREC Jean-François	SCP
France	COIN Christel	SCP
France	COLLARD Anne-Laure	IRSTEA
France	CONDOM Nicolas	Ecofilae
France	COULON Caroline	AFEID
France	DARROUX Sophie-Charlotte	Demand Side Intruments
France	DAURENSAN Nicolas	CACG
France	DECLERCQ Remi	Ecofilae
France	DEFFONTAINES Geatan	BRLE
France	DOMNIQUE Olivier	BRLI
France	DOUMENC Fabrice	Canal de Carpentras
France	DRESSAYRE Etienne	BRLI
France	DUGUE Patrick	CIRAD
France	DUISIT Isabelle	Oyas Environnement
France	DULIOUST Jérémie	CACG
France	EL OUAAMARI Samir	AGTER
France	FABRE Guillaume	BRLI
France	FAROLFI Stefano	CIRAD
France	FATOU Colette	IRSTEA
France	FAVANT Marie-Hélène	BRL
France	FAVRE Marine	IRSTEA
France	FOFACK TSABOU Rhoda	Paris X
France	FRANCOIS Jean-Luc	AFD
France	GALIBOURG David	Decagon Devices Europe
France	GAMRI Souha	IRSTEA
France	GARIN Patrice	IRSTEA
France	GAUDOUT Claire	CACG
France	GEBERT Laure	Demand Side Intruments
France	GENDRE Sophie	Arvalis-Institut du Végétal
France	GILLES Rocquelain	BRLI
France	GIROUSSE Isabelle	SCP
France	GONTARD Francois	BRL
France	GORAL Philippe	BRLI
France	GRAMAGLIA Christelle	IRSTEA
France	GRAWITZ Bruno	SCP
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