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.
**SCIENTIFIC COMMITTEE**

BELAUD Gilles (SupAgro - France)
BOUARFA Sami (IRSTEA - France) President of the Committee
CITEAU Jean-Michel (BRL - France)
COFIE Olufunke (IWM - International)
CONDOM Nicolas (ECOFILA - France)
COULON Caroline (AFEID - France)
DAURENSAN Nicolas (CAG - 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 (CGAER - France)
HAMMAMI Ali (IAV Hassan II - Morocco)
HARTANI Tariq (ENSA Alger - Algeria)
HAYDE Laszlo (UNESCO-IHE - The Netherlands)
HUGUDOT 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 François (IRD - France)
MUKHERJI Aditi (CIMOD - India)
OJEDA Hernan (INRA - France)
ONIMUS François (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 (BFRG - France)
ROLLIN Dominique (IRSTEA - France)
RUELLE Pierre (AFEID - France)
RUF Thierry (IRD - France)
SOU 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)
BITOIN 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/CAG)
DRESSAYRE Etienne (AFEID/ BRL)
FAVANT Marie-Hélène (BRL)
GAUDOU Claire (CAG)
IVANKOVA Anastasia (VERSeau Développement)
KEDAJ Yvan (Swelia)
LECONTE Gwenäëlle (Pôle EAU)
MAILARD Allette (IRSTEA)
MIRALLES Chantal (AFEID)
MOLLE Bruno (AFEID/IRSTEA)
ROLLIN Dominique (AFEID/IRSTEA)
RUELLE Pierre (AFEID)
SOU Tom (IWRA)
VIDAL Alain (AFEID/CGIAR)
WAWRZYKOWSKI Marie (IRSTEA)
# AT A GLANCE

## CONFERENCE PROGRAM

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<thead>
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<th>LIST OF ABBREVIATIONS</th>
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**PROGRAM AT A GLANCE**

### CONFERENCE SESSIONS - WORKSHOPS

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<th>WEDNESDAY, OCT. 14</th>
<th>THURSDAY, OCT. 15</th>
<th>FRIDAY, OCT. 16</th>
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<td><strong>All day</strong></td>
<td><strong>Posters Exhibition</strong></td>
<td><strong>Exhibition (companies)</strong></td>
<td><strong>Exhibition (organizers)</strong></td>
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<td>8:30 - 10:00</td>
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<td>12:30 - 14:00</td>
<td>Welcome Cocktail offered by AFED</td>
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<td>19:00 - 21:00</td>
<td>Thai Reception (on invitation only)</td>
<td>Mexican Reception (on invitation only)</td>
<td>Gala dinner (on invitation only)</td>
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### OTHER ACTIVITIES

- **All morning**
  - Visit to Aigues Mortes
  - Technical Tours

- **All afternoon**
  - Visit to St-Guilhem-le-Désert
  - Visit to Montpellier

- **All day**
  - Visit to Carcassonne
  - Visit to Nîmes
  - Visit to Sète

### LEAGEND

- P: Plenary sessions
- W: International workshops proposed by ICID Working groups
- C: Cultural and Technical Tours
- E: Exhibition
- R: Reception
- T:גני Support of Délégation générale à la langue française et aux langues de France
- P: Project meetings
- IC: ICID other meetings
- ****: Newly constituted workbodies

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**ICID RELATED MEETINGS AND OTHER PROJECT MEETINGS**

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<th>MONDAY, OCT. 12</th>
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### LEGEND

- IC: ICID Working Group meetings
- IC: ICID Committees meetings
- IC: ICID BEC
- IC: International workshops held within ICID Working Groups
- ****: Newly constituted workbodies

- P: Plenary sessions
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- P: Project meetings
- IC: ICID other meetings

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**INNOVATE TO IMPROVE IRRIGATION PERFORMANCE ICID2015 CONFERENCE**
**Monday, October 12, 2015**

**All day**
- Registration - welcome desk
- Organizing Committee
- ICID Rooms
- Posters Exhibition
- Exhibition (companies)

**9:00 - 12:30**
- Opening Ceremony for the 26th ERC and 66th IEC
- Welcome Cocktail offered by AFEID

**12:30 - 14:00**
- Press Meeting

**14:00 - 17:30**
- 26th ERC - Theme DRIP 1/2
- 26th ERC - Theme REUSE 1/2
- 26th ERC - Theme GOUV 1/2
- Water resource quantitative management under climate change: the French Mediterranean case (AERMC)
- Workshop on Non-Structural Adaptations to Flood Management (WG CAFM)

**19:00 - 21:00**
- Thai Reception (on invitation only)

**Tuesday, October 13, 2015**

**All day**
- Registration - welcome desk
- Organizing Committee and ICID Rooms
- ICID Rooms
- Posters Exhibition
- Exhibition (companies)

**9:00 - 12:00**
- 26th ERC - Theme DRIP 2/2
- 26th ERC - Theme REUSE 2/2
- 26th ERC - Theme GOUV 2/2
- Visit to Carcassonne

**14:00 - 17:00**
- Workshop on Precision Irrigation - 1/2 (WG CROP)
- Round Table on REUSE Waste water reuse in agriculture (AFEID/WG PQW)
- Workshop on Future of drainage under environmental challenges and emerging technologies (WG SDG)
- Workshop on History of water crisis, old and recent issues (WG HIST)

**19:00 - 21:00**
- Mexican Reception (on invitation only)

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**Legend**
- Plenary sessions
- 26th ERC - Theme DRIP
- 26th ERC - Theme REUSE
- 26th ERC - Theme GOUV
- International workshops proposed by ICID Working groups
- Cultural and Technical Tours
- Exhibition
- Reception
- ICID Working group meetings
- Internal workshops held within ICID Working Groups
- ICID other meetings
- ** Newly constituted workbodies
## Wednesday, October 14, 2015

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<td>Poster Session 2/2</td>
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<td>Visit to Nîmes and Pont du Gard</td>
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### ICID Related Meetings and Other Project Meetings

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### ICID Related Meetings and Other Project Meetings

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### Legend

- ICID Working Group meetings
- ICID Committees meetings
- ICID other meetings
- ICID related meetings
- Other Project Meetings
- International workshops proposed by other initiatives
- Cultural and Technical Tours
- Exhibition
- Reception
- Project meetings
- Workshop held within ICID Working Groups
- Newly constituted workbodies

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**LEGEND**

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

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**LEGEND**

- Cultural and Technical Tours
- Exhibition
- ICID Working Group meetings
- ICID other meetings
- ICID related meetings
- Other Project Meetings
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 Francoise BREILLE, President of AFEID, ICID2015 organizer
- Speech of Roderic REVOL, Vice-President of Montpellier Mediterranee Metropole
- Speech of Saad NAIRZI, ICID President
- Speech of Damien ALARY, President Languedoc-Roussillon Region
- Speech of Laurent ROY, President of Water Agency Rhône Mediterranée Coteau
- 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: Johann PROEBRICH
MODERATOR: Jean-Philippe VENDT
Today drip irrigation systems are spreading fast across the world, spurred on by government incentives, by subsidies to individual farmers and large modernization programs, but also through farmers’ 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’irrigation localisée. Cas du périmètre du Gharb au Maroc.

Djamel Latrach 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.

THEME REUSE (1/2)
What potential for wastewater use in agriculture?
CHAIRMAN: Tom SIDO | MODERATOR: Bruno MOLLER
The way wastewater is reused is shaped by the standards 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 EN PAPER
Biofilm growth at high COD and particle concentration levels: application to the case of micro-irrigation emitters used for wastewater reuse.

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

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

You can consult all papers on the website of the Conference: icid2015.sciencesconf.org
Innovate to Improve Irrigation Performance

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GROUNDWATER USE AND MANAGEMENT IN AGRO-ENVIRONMENTAL SETTING

Monday - 14:00 - 17:30 - Sully 2

WG CAFM WORKSHOP

Non-Structural Adaptations to Flood Management (by ICID - WGF-CAFAM)

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 plans 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.

Monday - 14:00 - 17:30 - Joffre 5

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.

Monday - 16:00 - 17:30 - Einstein

POSTER SESSION (2/2)

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.

Monday - 16:00 - 17:30 - Joffre 5

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

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Tuesday, October 13

**THEME DRIP (2/2)**

- Chairperson: Johannes FRISCHBACH
- Moderator: Jean-Philippe VENOT

- Bakkar Lahasan (FR) PAPER
  - 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.

- Kulkami Suresh (ENG) PAPER
  - Challenges of introducing micro irrigation in canal irrigation schemes in India.

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

- Coubiably Rami (FR) PAPER
  - L'irrigation goutte à goutte pour l'économie de l'eau : cas du Burkina Faso.

- Khalida Ahmed (ENG) POSTER
  - Introduction of family drip system for improving livelihood of small-scale farmers, north Kassala, Sudan.

- Malata Mphato (ENG) PAPER
  - Evaluation of the low adoption rate of drip irrigation in Malawi and lessons learnt from farmers experiences.

- Lehanee Bashu (ENG) PAPER
  - Non-conventional method of irrigation for livelihood enhancement (a case study of micro-irrigation pilot in Ripin Dhotar irrigation system).

- Emane Leila (ENG) POSTER
  - Role of modern irrigation methods and farmers' participation in agricultural water consumption management of Urmia lake basin, Iran.

**THEME GOUV (2/2)**

- Chairperson: Jean VERDIER / Moderator: Olivier PETIT & Marcel KOPPER

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

- EI-Ahia Diare (FR) PAPER
  - Below the radar: the boom of groundwater use in the Nile Delta.

- Aamrshgus Edige (ENG) POSTER
  - Surface water supply as an indirect measure to regulate groundwater use: a case study in northwestern China.

- Arturo González (ENG) POSTER
  - Governance and management of aquifers in Mexico.

- Yuksei Hasanbasi (ENG) POSTER
  - Drought management in Central part of Turkey with special reference to recent drought effect experienced on water resources.

- Dungur 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 Chuang (ENG) POSTER
  - Water governance for drought/water-scarcity in Taiwan – a multi-layer management system.

- Altchanko Yan (ENG) POSTER
  - Mapping irrigation potential from renewable groundwater in Africa: a development perspective.

- Franklin Bradley (ENG) POSTER
  - Solar irrigation pumps in India: Can power buy-back ensure sustainable groundwater use?

- Dal Vecchio Kevin (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.

- Loperoz 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) POSTER
  - Agricultural groundwater management in Turkey.

- Amichi Farida (ENG) POSTER
  - De l'archipel oasien à l'eldorado pionnier.

- Ruf Thierry (FR) PAPER
  - Comment se sont adaptés les agriculteurs de la zone d’El Guerouane 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?
Innovations in Irrigation: From Traditional Practices to Precision Agriculture

**Tuesday, 14:00 - 17:30 - Rondeau 1-2**

**WG Crops Workshop (1/2)**

**Precision Irrigation (by AFED and ICID WC Crops)**

**Chairman:** Rajeev Raigar | **Moderator:** Pierre Rouelle

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 irrigation system with the crop, water, and nutrient management. It is a systems approach. Precision irrigation for 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.

**Eit Moh Fatha**

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

**Nagaz Kamel**

- Impact of deficit irrigation on yield and fruit quality in orange (Citrus sinensis L. DC)., MV. Mekki Maltouf) in southern Tunisia.

**Lin Li-Ju**

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

**Seidat Sabine**

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

**Jean Jacques Weber**

- Experimentation du goutte à goutte sur la culture de maïs dans un contexte de rareté des terres et de l'eau utilisant les eaux usées domestiques.

**Tangara Brehima**

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

**Mahjoubi Arash**

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

**Anna Tanveer**

- Evaluation of irrigation scheduling using real time soil moisture monitoring system.

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

**Afed - WP Pow Round Table (REUSE)**

**Waste water reuse : time for solutions! (by AFED and ICID WP POW)**

**Chairman:** Akisso Bairou | **Moderator:** Nicolas Condoum & 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 ability 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 multi-stakeholder 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 case, 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 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.

**Savvy Pierre**

- PROJECT NOWMAA - New process for Optimizing Wastewater Reuse from Maugpo to the Mediterranean area.

**Berard Jacques**

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

**Farag Hanan**

- Kafer El-Shiheik - Delat-Egypt.

**Sanzead Dimitri**

- Carto Reuse: a webplatform to share experiences.

**Hayok Bassum**

- Decentralized integrated sludge management: developing the approach in Jordan.

**Sadi Ali**

- North Gaa Emergency Sewage Treatment project – NOEST- Recovery and Reuse Scheme.

**Pierre-Louis Mayaux**

- Building on existing conditions: the Settat experiment, Morocco.

**TUESDAY - 14:00 - 17:30 - BARTHÉZ 1**

**WG SDG Workshop**

**Future of drainage under environmental challenges and emerging technologies (by AFED 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 Jingying**

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

**Dong Bin**


**Wang Shao**

- Laboratory evaluation of improved subsurface drainage performance.

**Casillas Arturo González**

- Achievements and progress of agricultural drainage in Mexico.

**Hartani Tarik**

- Drip irrigation and drainage between water saving and salinity control: Field evidence from the Lower Cheillif (Algeria).

**Virtanen Seija**

- Sub-Irrigation and Controlled Drainage Increases Yields and Mitigate Acid Loading in Finnish Cultivated Acid Sulfate Soils.

**Mika Turunen**

- Simulating impacts of land-use, topography and hydrology on sediment loading in clayey subsurface drained agricultural fields in high-latitude conditions.

**Locclomin Julien**

- Reuse of drainage water in Iraq.

**Gouda Ramana**

- Assessment of Traditional Drainage System with Special Reference to Karnataka State, India - A Case Study.

**Kchouk Sarra**

- Draineage Water Reuse Strategic Options and Measures to Alleviate Risk of Failure, Egypt.

**Khaddam Issam**

- Optimal layout and salinity management of drip irrigation systems.

**Tuyishime Olive**

- Acid Loading in Finnish Cultivated Acid Sulfate Soils.

**Toshiyama Olive**

- Impact of Irrigation Regime and Controlled Drainage on Nitrogen - Silt dynamics and Rice Performance in the Muvumba Salt affected Soils, Rwanda.

**Vincent Bernard**

- Simplified hydrological and nutrient transfer modeling in a subsurface drained Catchment (Ouqouy, France) and undrained catchment (Porijoki, Estonia).
At the start of the 21st century, in many regions, water crisis seems (by AFD and CSIC Cordoba) 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.

Chairman: Kamran Emami / Moderator: Thierry Ruf

**WATER AND ENERGY WORKSHOP**

**History of water crisis, old and recent issues**

- Water management and mismanagement in Early China.
- Water Wisdom and Sustainability: Insights from Irrigation Systems in Afghanistan.

Chairman: Gihem Belalou / Moderator: Luciano Mateos

**IRRIGATION AND ENERGY WORKSHOP**

**by AFD and CSIC Cordoba**

- Building a system of aqueducts from the first century B.C. serving the Gulf of Naples.
- Hydraulic risk perception of Trasimeno lake: historical and actual issues.
- Smart Water for Smart Cities in India.

Chairman: Gihem Belalou / Moderator: Luciano Mateos

**Wednesday, October 14**

**Wednesday - 9:00 - 15:30 - Rondel 1**

- Prospects of Concentrated Photovoltaic (CPV) System in Wadi El Natrun Area, Egypt.
- Enhancing hydraulic performance and energy saving of pumps using Computational Fluid Dynamics (CFD).
- Optimisation énergétique du système BRL.

**Wednesday - 14:00 - 17:30 - Barthez 2**

- Reducing the energy demand in irrigation water supply systems. Experiences from southern Europe.
- Water allocation optimization for combined users of energy and irrigation for an effective energy cost reduction.
- Carbon Footprint of three different irrigation systems.

**Thursday, October 15**

**Thursday - 9:00 - 15:30 - Rondel 1**

- Water conflict and cooperation between India and Pakistan: Opportunities and Challenges for Ensuring Food Security.

**Thursday - 14:00 - 17:30 - Barthez 2**

- Water allocation optimization for an effective energy cost reduction.
- Modernization de périmètres irrigués dans le nord ouest argentin.
- Drip Irrigation System for Maize to Reduce Food, Water and Energy Scarcity in Egypt.
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**WG CROPS WORKSHOP (2/2)**

**Precision Irrigation (by AFED and WG CROPS)**

**Chairman:** Ragab Ragab / MODERATOR: Pierre Ruelle

**Papula Sachin**
- Hydraulic study, design & analysis of different geometry of emitter labyrinth used in drip irrigation for crop free performance.

**Putthividhya Akkara**
- Water Requirements and Irrigation Scheduling of Ban Khalat Irrigation Project Using GIS and CropWat Model in Rayong Province Thailand.

**Rous Andre**
- FruitLook: A special approach to assess and improve water use efficiency of vineyards and deciduous fruit orchards in South Africa.

**Heydari Nader**
- Designing precise surface irrigation systems.

**Elkabab Alias**
- Advanced irrigation technology for enhancing field water use efficiency and precision irrigation for rice: a case study-Egypt.

**Hartam Tarik**
- Low pressure subsurface irrigation with permeable pipes for a precision and optimal irrigation management.

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

**Kalavai Yella Raddy**
- Sensors for water monitoring in paddy fields for improved on farm water management.

**Bourziia Raja**
- Modeling of water transfer of subsurface drip irrigation under oases conditions.

**Wu Ray-Shyan**
- In the Precision Irrigation Model of Paddy Field - A Case Study in Chang-Hua, Taiwan.

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

**Patil Mukund**
- Simple and Farmers' Friendly Decision Support System for Enhancing Water Productivity in Agriculture.

**Wang Rus-Qian (Roger)**

**Randel-Ashwani**
- Economic analysis of crops’ productivity potential and drip irrigation system in India - Policy Implications.

**Parniola Michelle**
- Sustainable use of water resources for food security.

**Abou El Hassan Waleed**
- Validation of accurate determination of maize water requirements in Nile Delta.

**Yildiz Ugurlu-Remziye**
- Salinisation dynamics and solution suggestions in soil of Harran Plain irrigation projects.

**Muhammadjan Shukrat**
- Adaptation to climate change in irrigated agriculture.

**Daafar Ibrahim**
- Assessment of irrigation water management in Nasrallah Area, Damghan Governorate, Egypt.

**Amwar Nadjad**
- Optimization of Njaph reservoir operation for irrigation using linear programming.

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

**Barakat Mohammad**
- Influence of the irrigation technique on the nitrogen budget: a review.

**Wedneday - 9:00 - 12:30 - Barthez 1**

**WG ENV WORKSHOP**

**Ecosystem Services and Multi-functionality of Irrigation and Draining Systems (by AFED and WG ENV)**

**Chairman:** Sylvain Perret

**Admasu Zekale Belay**
- Effect of drip lateral spacing and irrigation schedule on drip irrigated crops: tomato and onion production, Kobe Girrana valley, Ethiopia.

**Patil Mukund**
- Simple and Farmers' Friendly Decision Support System for Enhancing Water Productivity in Agriculture.

**Wang Rus-Qian (Roger)**

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

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

**Barakat Mohammad**
- Influence of the irrigation technique on the nitrogen budget: a review.

**Wednesday - 9:00 - 12:30 - Joffre S5**

**WG ENV WORKSHOP**

**Ecosystem Services and Multi-functionality of Irrigation and Draining Systems (by AFED and WG ENV)**

**Chairman:** Sylvain Perret

**Admasu Zekale Belay**
- Effect of drip lateral spacing and irrigation schedule on drip irrigated crops: tomato and onion production, Kobe Girrana valley, Ethiopia.

**Patil Mukund**
- Simple and Farmers' Friendly Decision Support System for Enhancing Water Productivity in Agriculture.

**Wang Rus-Qian (Roger)**

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

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- Influence of the irrigation technique on the nitrogen budget: a review.
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- The Experiences of Modern Irrigation Systems and Methods in Turkey.
- The simulation of water demand and supply scenarios by using the system dynamics tool.
- Pre Survey Results for Establishing of Governance to Manage Agricultural Nonpoint Source Pollution in Saemangeum Area.
- Monitoring and Modeling NPS Pollutant Loads in the Reservoir Irrigated Paddy Block.
- The Alarming Unsustainable Use of Groundwater Resources in Lebanon.
- Wastewater Reuse for Irrigation in Saline Arid region: lessons learnt from Algerian Sahara desert.
- The new irrigation with saline groundwater and artichoke production in Lower Chefluf (Algeria).
- Local initiative for integrated governance of surface water and groundwater.
- Removal of antibiotic resistance genes by two innovative wastewater treatment solutions for water reuse in agriculture.
- Strategies to combat coastal erosion and inundation in resilient low coastal land.
- Agricultural Contamination in Soil and Groundwater from Irrigated Farmland in Thailand: Risk Implications for Sustainable Agriculture and Food Safety.
- Chemical and biological clogging within pipes and emitters using treated waste water in irrigation.

THURSDAY, OCTOBER 15

16:00 - 18:00 - EINSTEIN

CLOSING CEREMONY

Master of Ceremony: François BREILLE

16:00
Opening of the Closing Ceremony
• Speech of Sami BOUJARFA, President of ICID2015 Scientific Committee

16:10
Sessions Reporting
• Session key messages by sessions chairmen

17:20
Invitation for WIF 2
• Speech of Letterio KOWATNIA, President of Thai Committee

17:30
Sahel Irrigation Initiative Program Presentation
• Allocution de Mamadou MOUSSA ARIE, Francios DINIMUS (World Bank)

17:45
End of the Closing Ceremony
• Speech of François BREILLE

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

PPP WORKSHOP
Public-Private Partnerships (by the World Bank, the French Agency for Development and AFIDIF)

CHAIRMAN: François BREILLE / MODERATORS: Nicolas DAURENAS,
Elitene DRESSAPY & Florence MALERBI

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 play an important role to increase and stabilize agricultural production as well as boost economic development in rural areas. But irrigation and drainage development implics 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 familiarizes 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 afternoon two parallel sessions.

The panel sessions after lunch will be seeking to highlight the different perspectives of the public and the 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 panels 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.

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VISITS

TECHNICAL AND CULTURAL
The Pond was drained in 1247. The phylloxera crisis (around 1870) then shaped the wine-making vocation of Montady. The Pond’s natural form (‘salaison’) or in a bordering humid zone. Lagoons in the environmental transit zone, the discharge of the treated nitrogen and phosphorus in order to fight against the eutrophication of ‘Etang de l’Or. After the transition through the rehabilitation of old works (sound proofing, deodorization), an advanced treatment of the construction integrates the flood prone nature of the site, containment platforms of dedication to the NOWMMA. This station responds to the demographic evolution and common activities of Mauguio and Mudaison (Hérault, France). this station has Sha equipped for experimentation in irrigation. Automatic overpressure feeds the parcels with the water from the BRL network (Bassin Rhône Languedoc). the visit of 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 hydraulics, and the hydraulic 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 in 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, nutrients) 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 flowpaths (Irrigation 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.

The Authorized Syndical Association was founded in 1879. It aims to together landowners within a perimeter of 3000 ha. (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 (linear drip irrigation, fertirrigation, automation of watering systems, etc.). It allows for a significant reduction in water withdrawals (efficiency gain), and enhances ease of use by adoption of innovative irrigation systems (linear drip irrigation, fertirrigation, automation of watering systems, etc.). 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

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 Béziers / Presentation of the remote monitoring system managed by BRL / Overview of Philippe Lamour canal.

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).

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).

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).

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).

GALA DINNER

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

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.

WINE 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

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

Friday, October 16, 2015 | 9:30-17:00
Departure: Montpellier’s Corum (Level 0)
Places: Mauguio, Nîmes, Fourques, Béziers
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)

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.

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 4 links (Mauguio Nord and Ouest Montpellier, Maillot Nord Gardiole, Maillot Biterrois, Maillot Littoral Audais and Maillot 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.

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 Béziers (Gard) / Presentation of the remote monitoring system managed by BRL / Overview of Philippe Lamour canal.

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-GUÎLHEM-LE-DÉSERT AND CLAMOUSÈ’S CAVES

Saturday, October 17, 2015 | From 9:00 to 18:00
Departure: Montpellier’s Carrom (Level 6) | Accessibility: Free
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 stop on the way to Saint Jacques de Compostella, home of the splendid old Abbey Dellone (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 consistencies.

CARCASSONNE

Tuesday, October 13, 2015 | From 9:00 to 18:00
Departure: Montpellier’s Carrom (Level 6) | Accessibility: Free
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

Wednesday, October 14, 2015 | From 9:00 to 12:30
Departure: Montpellier’s Carrom (Level 6) | Accessibility: Free
Target Audience: Any registered participant, particularly accompanying persons

DETAILS
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.

DETECTIVE VISIT MONTPELLIER

Wednesday, October 14, 2015 | From 14:00 to 16:30
Departure: Montpellier’s Carrom (Level 6) | Accessibility: Free
Target Audience: Any registered participant

NÎMES AND PONT DU GARD

Thursday, October 15, 2015 | From 9:00 to 18:00
Departure: Montpellier’s Carrom (Level 6) | Accessibility: Free
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 Carrée de Nîmes”. Finally, you will view the exceptional panorama of the city from the top of the Tour Magna.

SÈTE

Friday, October 16, 2015 | From 9:00 to 18:00
Departure: Montpellier’s Carrom (Level 6) | Accessibility: Free
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 Calanque 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.

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

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

Hotels
- Crowne Plaza 4*
- Grand Hôtel du Midi 4*
- Hôtel Ulysse 3*
- Royal Hotel 3*
- AppartHotel Citadines Antigone 3*
- Hôtel Bois Stylus 3*
- AppartHotel Odalys les Occitanes 3*
- Hôtel Eurexel
EXHIBITION
BRL GROUP

Web site: www.brl.fr
Contact: Jean-François Blanchet, General Director
Tel: +33 (0)4 66 67 00 00 | Fax: +33 (0)4 66 25 63
E-mail: brl@brl.fr

THE SOCIETE DU CANAL DE PROVENCE (SCP)

Web site: www.canal-de-provence.com
Contact: Françoise Santelli | Tel: +33 (0)4 42 66 70 99
E-mail: mcc@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 fulfills 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.

agriculture, 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 multiple dataloggers (available protocols include SDI-12, Modbus over RS232 / RS485 / RS232). 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 MODbus over free radio, GPRS or Ethernet. Thus, water is supplied according to plant consumption 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.

The International Commission on Irrigation and Drainage (ICID), established in 1950 is the leading scientific, technical and not-for-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 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.

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 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 water transport for that area.

DEMAND SIDE INSTRUMENTS

Web site: www.dsidinstruments.fr
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Demand Side Instruments (Demand Side) is a start-up technology company created in 2013 in 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, end-to-end and cost optimized machine-to-machine (M2M) system solutions. Our pioneering solutions based on the use of the wireless broadcast technology and networks enable to benefit from a robust, reliable and long reach 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).
Innovate to Improve Irrigation Performance

**GACHES CHIMIE SPECIALITES**

**Web site:** www.gaches.com
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**E-mail:** cmangerucu@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®BFinite, 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
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**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 over 4,000 employees worldwide, Netafim delivers innovative solutions in over 110 countries across the globe. Founded in 1956, 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**

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Oyas® – Autonomous and environmentally friendly irrigation system Oyas®, the pots for your plants watering! Oyas are buried micro-permeable 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. This 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

**NETAFIM**

**Web site:** www.netafim.fr
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**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 complimentary 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.

**SWELIA**

**Web site:** www.swelia.com
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Solutions for a quality and optimized use of Water in Agriculture and Agro-Industries

With more than 110 member companies, Swelia is the premier expert network operating in the full water cycle; Swelia member companies cover the entire range of competences encompass the identification, catchment, treatment, distribution, irrigation, analyses and control, water metering, 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 integrative 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 Franca Water Team, Pôle EAU, PEXE and MEDF International.

**SDEC FRANCE**

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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, a recognized partner for customers of public or professionals organizations, research institutes, universities, consulting firms and farmers.

Our range of samplingührasuring instruments and Decision Making Tools:

**WEATHER**
- Agrometeorological 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
- Software for hydrology
PARTICIPANTS
Innovate to Improve Irrigation Performance

ICID2015 Conference

NOTES

Tunisia

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Tunisia

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Tunisia

KCHOUK Sarra
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Tunisia

LILI CHABAANE Zohra
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Tunisia

SHABOU Marouen
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Turkey

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ICID

Turkey

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Turkey

KITIR Nurgil
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Texas A&M University

United States

STEPHEN Clark
Xylem Inc.

United States

STEPHENS Larry Dean
U.S. Committee On Irrigation And Drainage

United States

TRIER Remi
The World Bank

Uzbekistan

MUKHAMEDJANOV Shukhrat
Scientific Information Center By Interstate Coordination Water Commission
ORGANIZERS AND PARTNERS

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