



**UNDER THE HIGH PATRONAGE OF HIS MAJESTY THE KING MOHAMMED VI
MAY GOD GLORIFY HIM
SOUS LE HAUT PATRONAGE DE SA MAJESTE LE ROI MOHAMMED VI QUE DIEU
L'ASSISTE**

**5th Regional African Conference of the International Commission of Irrigation and
Drainage on**

**SUSTAINABLE IRRIGATION FOR IMPROVED RESILIENCE OF
AGRICULTURE IN AFRICA**



**5ème Conférence Régionale Africaine de la Commission Internationale de l'Irrigation
et du Drainage**

**Irrigation Durable pour une Meilleure Résilience de l'Agriculture en
Afrique**

**23-27 Novembre 2021-[Hotel KENZI ROSE GARDEN](#)
Marrakech - MAROC**

PROGRAM / PROGRAMME

Tuesday/Mardi - November 23rd- 2021

Hotel KENZI ROSE GARDEN

16h15- Registration/Inscriptions

Visit of Water Museum/Visite du Musée de l'Eau (optional)

18h-20h Reception

Wednesday/Mercredi - November 24

Conference Room A/ Salle de Conference A

Hotel KENZI ROSE GARDEN

8h30 -10h00 Registration/Inscriptions

10h00 – Opening Session/Séance d'Ouverture

-Opening Speeches/Allocutions d'ouverture

11h00 - 12h00 Coffee Break /Pause-Café

• VISITE DES STANDS D'EXPOSITION

- **Session 1. Sous thème A/Topic A:Stratégies d'adaptation à la rareté de l'eau /Strategies to cope with water scarcity**
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- **12h00-12h15- Conférence : Initiative Adaptation de l'Agriculture Africaine (AAA) et son rôle dans l'amélioration de l'adaptation aux changements climatiques – Mme Abir LEMSEFFER, Présidente de la Fondation AAA- Ministère de l'Agriculture, de la Pêche Maritime, du Développement Rural, des Eaux et Forêts, Maroc**
- **12h15-12h30-African Union'Irrigation Development and Agricultural Water Management (IDAWM) framework. Dr Mure AGBONLAHOR, Senior Officer, Agricultural Production and Marketing, African Union Commission, Addis Abeba, Ethiopia**
- **12h30-12h45- Account irrigation water for agricultural sustainability and sustainable development at different scales: findings from the NENA region; Mr. Jiro ARIYAMA, Domitille Vallee, FAO Cairo**
- **12h45-13h00- Discussion**
- **13h00-14h00 LUNCH/DEJEUNER**

- **Session 2. Sous thème A/Topic A:Stratégies d'adaptation à la rareté de l'eau /Strategies to cope with water scarcity**

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- **14h00-14h15 Stratégie de planification des ressources en eau et d'adaptation aux changements climatiques au Maroc, Zineb FILALI, DRPE, Maroc**
- **14h15-14h30- The Saudi Irrigation Organisation: Transformation from a regional to a national irrigation champion, Mohamed AL AMEER, Saudi Arabia**
- **14h30-14h45 Water for food, water for life: The dryland Africa challenge; Vinay NANGIAC-International Center for Agricultural Research in the Dry Areas (ICARDA)**
- **14h45-15h00 Projets de Partenariat Public Privé en Irrigation au Maroc: Réalisations et Résultats, TANJI Rajae et ELMASLAHI Mostapha, Direction de l'Irrigation et de l'Aménagement de l'Espace Agricole, Division des Partenariats Public Privé en Irrigation ; Maroc,**
- **15h00-15h15 Convention eau Bassin Haouz Mejjate, Mr CHTIOUI, Agence de Bassin Hydraulique du Tensift, Maroc.**
- **15h15-15h30 Seawater desalinisation PPP project in Chtouka : An opportunity for the conservation of local water resources and the development os sustainable agriculture, S. OUDRHIRI and M.OUHSSAIN, Directorate of Irrigation and Agricultural Land Planning, Morocco,**
- **15h30-15h45 La stratégie nationale d'économie d'eau en Tunisie : vers une gestion optimale des ressources, Fatma MESSAOUDI, Ministère de l'Agriculture -Tunisie**
- **15h45-16h00 Réutilisation des eaux usées traitées en irrigation au Maroc , Les facteurs clés de réussite?, ELMEKNASSI Youssoufi Ehssan, IAV Hassan II, Maroc**
- **16h00-16h30 DISCUSSION**
- **16h30-17h15 Coffee Break/Pause Café**

Thursday/Jeudi-November 25
Salle de Conference/Main Conference Room

Hotel KENZI ROSE GARDEN

Session 1 –Sous thème B/Topic B: **Valorisation de l'Eau d'Irrigation/Valorization of Irrigation Water**

- **9h00-9h15- Empowering smallholder farmers to increase irrigation productivity and profitability in Sub Saharan Africa**, Evan CHRISTEN, Agricultural engineer – irrigation, drainage, wastewater Agricultural research for development – partnership development, capacity building, project proposals, **Australia**
- **9h15-9h30- Water productivity as the cornerstone of water-limited irrigation valorization**, Mr. Elias FERERES, Université de Cordoue, **Spain**
- **9h30-9h45- Short commitments, self-monitoring and local agricultural agency administration, improved BMP cost share enrollement rates”,** Lauriane S. YEHOUENOU et al. Food and Resource Economics Department- University of Florida, **USA.**
- **9h45-10h00- Water productivity in the oasis crop/livestock systems: importance of irrigation and impacts on farms’ performances**, M.T. SRAÏRI^{1*}, K. BENTAHAR¹, M. KUPER²; 1. School of Agricultural Sciences, Hassan II, **Morocco**. 2. CIRAD UMR G-Eau, Montpellier, **France**, and IAV Hassan I, **Morocco**
- **10h00-10h15- Estimation et analyse de l’efficience technique et économique de l’utilisation de l’eau d’irrigation pour les exploitations de la framboise et la myrtille au niveau du périmètre de Loukkos**, MATAALLA Nasseridine, Département Sciences Humaines IAV Hassan II, **Maroc**
- **10h15-10h30 DISCUSSION**
- **10h30-11h00 Coffee break/Pause Café**

• **Session 2 Sous thème B: **Valorisation de l'Eau d'Irrigation****

11h-11h15 Agro-physiological responses of melon to “continuous” and “regulated” deficit irrigation in the plain of Saïs, Morocco. -Omnia El Bergui^{1,2}, Aziz Abouabdillah^{1*}, Rachid Bouabid¹, Nabil Jaouhari^{1,3}, Mohamed Bourioug¹ and Ahmad Bouaziz² (1) 1. National School of Agriculture of Meknes, Meknès, Morocco** (2). Agronomical and Veterinary Institute Hassan II, Rabat, Morocco, (3). Moulay Ismail University, Faculty of science of Meknès, **Morocco**

- **11h15-11h30- Multi-Season Field Tests of Low Energy Online Drip Irrigation Emitters**, Susan AMROSE^{1*}, Julia SOKOL¹, Fiona GRANT¹, Carolyn SHELINE¹, Elizabeth BROWNELL¹, Gianni MONTANARO², Abdeljabar BAHRI³, Bassou BOUAZZAMA³, Abdelaziz BOUIZGAREN³, Rachid MOUSSADEK³, Lhassane SIKAOUI³, Vinay NANGIA², Amos Winter¹
 1. Department of Mechanical Engineering, Massachusetts Institute of Technology, Cambridge, MA, USA
 2. International Center for Agriculture in the Dry Areas (ICARDA), Rabat, **Morocco**
 3. Institut National de la Recherche Agronomique (INRA), Rabat, Morocco
- **11h30-11h45- Water saving in rice irrigation: field assessment of alternate wetting and drying flooding and drip irrigation**, José M. Gonçalves^{1*}, Manuel Nunes¹, António Jordão², Rui Eugénio³, José Paixão⁴, Susana Ferreira¹, Henrique Damásio³, António Russo⁴, Isabel Duarte^{1,6}, Paula Amador^{1,6}, Teresa Vasconcelos¹, Kiril Bahcevandziev¹, **Portugal**
- **11h45-12h00 La Téléggestion au service de la reconversion collective au périmètre irrigué du Tadla**, Mohamed SAAF Chef Département de gestion des réseaux d'irrigations et drainage et Mohamed ZAHY responsable de la téléggestion des réseaux d'irrigation. **Maroc**
- **12h00-12h15 Prior Appropriation: an exercise in cognitive dissonance**,
 - 1 Laura SCHROEDER and 2 Jakob WILEY- ,2 Schroder Law Offices, Portland, Oregon, USA
- **12h15-12h45 DISCUSSION**
- **12h45-14h00 LUNCH/DEJEUNER**
- **Session 1 Sous thème C/Topic C: Gestion des Périmètres Irrigués à Différentes Échelles/Management of Irrigation Schemes at Different Scales**
Salle de Conference/Main Conference Room
- **14h00-14h15- “General Challenges of Irrigation Schemes Management under Different Scales: with Special Consideration on Institutional and Organizational Aspects of System Management”** Dr Hafied GANY, HVP of ICID, **Indonesia**
- **14h15-14h30 Remote sensing tools for irrigation management. Exemples in the Tensift Watershed (Marrakech, Morocco)**, S. ER-RAKI^{1,2}, V. SIMONNEAUX³, M. LE PAGE³, S. KHABBA^{1,2}, L. JARLAN³, M.H KHARROU², O. MERLIN³, J. EZZAHAR^{1,2}, Y. FAKIR^{1,2}, F. SGHIR⁴, M. CHTIOUI⁵, A. CHEHBOUNI^{2,3}
 - 1: Université Cadi Ayad, Marrakech, **Maroc**
 - 2: CRSA, Université Mohamed 6 Polytechnique Ben Guerir, **Maroc**
 - 3: centre d'Etudes spatiales de la biosphère, Toulouse, **France**;
 - 4: Office régional de Mise en Valeur Agricole du Haouz, Marrakech;
 - 5: Agence de Bassin hydraulique du Tensift (ABHT Marrakech), **Maroc**

14h30-14h45- WIMES® IRRIGATION: Un système d'information et de gestion pour les périmètres irrigués, Etienne DRESSAYRE, Pierre SAVEY, Anthony BLACHE, Lorette DOUZALS, BR Lingénierie, France

- **14h45-15h00 Assessment of Current Water Management in Large Scale Irrigation Scheme of Hadeja Valley Irrigation Project (HVIP) in Nigeria.** Muhammad Zaharaddeen DAYYABU¹, Katsuyuki SHIMIZU², ¹Federal Ministry of Water Resources, Abuja. **Nigeria** ^{**2}Faculty of Agriculture, Tottori University, **Japan**
- **15h00-15h15 Reducing seepage losses in canals through the use of new lining technologies**, William CRAWFORD MEng DIC, **United Kingdom**
- **15h15-15h30- Application of remote sensing technology to improve a gravity-flow irrigation scheme management**, Susana Ferreira¹, Juan M. Sanchez², José M. Gonçalves^{1*}, Rui Eugénio³, Manuel Nunes¹, Henrique Damásio³ **Portugal**
- **15h30-15h45 DISCUSSION**
- **15h45-16h15 Coffee Break/Pause Café**
- **18h15-20h30 Réception Australienne/Australian Reception (Sur Invitation/on invitation)**

Friday/Vendredi - November 26

8h45-10h30 Séance Plénière du 72ème Conseil Exécutif International de la CIID/Plenary Session of 72nd IEC of ICID

Salle de Conference/Main Conference Room

Hotel KENZI ROSE GARDEN

- **10h30-11h00 Coffee break/Pause Café**

Session 1-Sous thème D: Drainage et aspects écologiques/Drainage and Ecological Aspects

Salle de Conference/Main Conference Room

- **11h-11h15 Water microbiological indicators of a paddy rice system**, Isabel M. Duarte^{1,2**}, Helena Marques¹, Kiril Bahcevandziev^{1,2}, Teresa M. Vasconcelos¹, Paula Amador^{1,2}, José M. Gonçalves¹, ¹ Instituto Politécnico de Coimbra, Escola Superior Agrária, Bencanta, 3045-601 Coimbra, ² IIA, Instituto de Investigação Aplicada, CERNAS, Centro de Recursos Naturais, Ambiente e Sociedade. **Portugal**
- **11h15-11h30 Seasonal subsurface drainage runoff changes in Lithuania**, Otilija MISECKAITE Agriculture Academy of Vytautas Magnus University, **Lithuania**

- **11h30-11h45 - To The Question of Creating A “Great Green Wall”;** BONDARIK Irenel, / TANYUKEVICH V.V.2, GURINA I.V.3, Taran S. S.,4- 1.All-Russian Institute for hydraulic engineering and land reclamation named after A.N.Kostyakov, 1-2. Novocherkassk Engineering and Land Reclamation Institute named after A.K. Kortunova-Don State Agrarian University 2 , 3 ,4, **Russia**
- **11h45-12h-Overview of Constructed Wetlands Designed for Treating Agricultural Runoff,** HEBERLING, Heberling Environmental consulting (HEC) Birmingham, Alabama, **United States**
- **12h00-12h15 -Antibiotic resistances on manured and irrigated soil**
Isabel M. Duarte1,2**, Helena Marques1, Teresa M. Vasconcelos1, Paula Amador1,2
1. Instituto Politécnico de Coimbra, Escola Superior Agrária, Coimbra, Portugal, 2. IIA – Institute of Applied Research, CERNAS - Research Centre for Natural Resources, Environment and Society, **Portugal**
- **12h15-12h30 Assessing the Sustainability of Drainage System in Irrigated Agricultural Land: A Case of Kano River Irrigation Scheme in Nigeria;** Muhammad Tukur BAYERO1, Bakhodir MIRZAEV2, Amos Tiereyangn KABO-BAH3- 1. Institute of Water and Energy Sciences (including climate change), Pan African University (PAUWES), Tlemcen, **Algeria**- 2. Islamic Development Bank Group, Jeddah, **Saudi Arabia**; 3. University of Energy and Natural Resources, Sunyani, **Ghana**
- **12h30-14h00 LUNCH/DEJEUNER**

Session 2-Sous thème D: Drainage et aspects écologiques

- **14h00-14h45 DISCUSSION**
- **14h45-15h45 Session de CLOTURE/CLOSING Session**
- **15h45-16h15 PAUSE CAFE**
- **Saturday/Samedi - November 27 - 8h30-16h30**
- **Technical Visit/Visite Technique Nfis irrigated scheme**
- **November 28 and 29**
- **Optional Post Conference Study tour to Essaouira- Voyage d'étude optionel à Essaouira**
Visit to E Ksob irrigated scheme and cooperatives/Visite au périmètre irrigué Ksob et coopératives

72nd International Executive Council continues/poursuite des travaux du 72ème CEI de la CIID: november 27th to 30th, 2021 in the Kenzi Rose Garden conference rooms

- **December 1st and 2nd 2021**
- **Optional Post Executive Council Study tour to Agadir- Voyage d'étude post conseil exécutif optionel à Agadir**
Visits to EL Guerdane et Chtouka Irrigation Projects/visites aux périmètres de El Guerdane et de Chtouka



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