

Workshop on Dry Drainage and Bioreactors or Green Infrastructures

Date : 12 August 2018, 13:30-17:00 TCU gal B

Saskatoon, Saskatchewan, Canada

Drainage, at least in Europe, is taxed with all the evils, bringing pollution by nitrates and pesticides and increasing the floods. In arid zones it is fought to be antagonist with water saving programs and numbers of irrigation funding plans dangerously pass drainage under silence. By contrast, in North America, it vehicles an acceptable image when promoted as drainage Water Management.

However, well-designed, well-managed well used drainage is a powerful regulator of runoff, can store water in the soil, to ultimately allow regulation of agricultural surface water quality and quantity. Combined with an adapted irrigation design, drainage is the essential tool for managing soil salinity, alkalinity or acidification and, therefore, the sustainability of irrigated agriculture.

The workshops address the techniques to design or manage drainage for improving water quality, controlling quantities of water, preserving the soil quality (controlled drainage, constructed wetlands, bioreactors, green infrastructures). Papers related to traditional techniques (Dry drainage for instance) are also well encouraged. The subject may be linked to design criteria, law and policies, sociologic approaches for implementation, case studies, and situation in which drainage carries with it the genes of the self-compensation of the agriculture it supports

List of presentations (presenting authors)

- Artificial Wetlands in Khuzistan, Iran; Problems and Solutions. **Ardavan Azari Yekom Consulting Engineers, Iran**
- Peat Subsidence Due to Drainage in the Paddy Field Zone in Hokkaido, Japan **Naoko Koshiyama¹, Civil Engineering Research Institute for Cold Region, Sapporo, Japan**
- Methods to improve the function of controlled drainage and sub-irrigation. **Seija Virtanen, Finish drainage foundation, Finland**
- Water Gate Valve In controlled drainage. **Helena Aijö, Finish drainage constructors association.**
- Experience with Controlled drainage and Water Table Management in Eastern Canada, **Chandra A. Madramootoo, mac Gill university, Canada**
- Control drainage for fire prevention in peatland areas in South Sumatera, Indonesia, **Momon Sodik Imanudin, Faculty of Agriculture, Sriwijaya University, Indonesia**
- Green infrastructures V/S drainage water quality, **Bernard Vincent, Irstea France**

- Yield Benefits of Drainage Water Recycling in Iowa and Indiana, Chris Hay, **Iowa soybean Association, USA**
- The need for a safe outlet for drainage in irrigated agriculture: comparison of the Nile and Indus Basins. **Henk Ritzema, Wageningen University, The Netherlands**