

Groundwater at the crossroads of several SDGs (2a)

Introducing the session

JA

This parallel session was proposed by Muhammad Saidam and myself Jean Albergel. We will co-chair it.

Muhammad Saidam (Jordan), PhD in Environment and Water Resources Engineering from the Imperial College in London, was the Chief Scientist at the Royal Scientific Society. Muhammad was appointed by the United Nations as a member of the 15 "Independent Group of Scientists and Experts" and co-authored the first quadrennial Global Sustainable Development Report (GSDR).

MS

Jean Albergel (France), PhD in water science from this University, Paris Sorbonne (1987) is now Emeritus Senior Scientist at the French Research Institute for Sustainable Development (IRD) and the Executive Secretary of the Commission for International Agricultural Research (CRAI) at the French Ministry of Higher Education, Research and Innovation.

The conference scientific committee has selected 8 abstracts for this session, 4 for poster presentations whose authors are with us and 4 to be discussed in a round table. Two posters are in French:

- Professor OBAMI-ONDON, teacher-researcher at the University Marien NGOUABI, Republic of Congo shows the contribution of geographic information systems to the knowledge of aquifers and for a sustainable management of aquifers in the Precambrian system in the West of his country. (Abstract N°6)
- Professeur Moulay Idriss Hassani de la faculté des sciences de la terre et de l'univers à l'Université d'Oran met en perspective le rôle des ressources en eau souterraine en vue de l'atteinte des ODD en Algérie. (Abstract N°224)

Two other posters are in English:

- Rijal Moti, Associate Professor, Central Department of Geology, Tribhuvan University, Kathmandu, Nepal, presents immediate need of a suitable groundwater management framework for sustainable use of groundwater resources and ensuring groundwater dependent SDGs. (Abstract N°202)
- SHIFA SHAZIA, Department of Environmental Sciences, Jamia Millia Islamia, New Delhi, India, presents how the eradication of Per-and polyfluoroalkyl substances from Groundwater is helping india to achieve targets of SDGs 3, 6,9,12, 15, 16 and 17. (Abstract N°66)

Posters will be displayed the all-day but authors of this session will present their topic at XX this afternoon.

JA

We will proceed immediately to the round table. Muhammad Saidam will first set the scene by presenting the GSDR and GW use in pathways for sustainable development. Next speakers will be:

- Dr Falk Hilliges, geographer, responsible for all groundwater protection issues in Germany at the German Federal Environment Agency.

Abstract 113: Implementation of the SDGs in groundwater management in Germany – Achievements and challenges.

- Dr Mohamed Jalludin, hydrogeologist, DG of the Centre d'Etude et de Recherche de Djibouti member of the UNESCO Scientific Council for the IGCP-IUGS geosciences programmes.
Abstract N°82: Les eaux souterraines et les objectifs de développement durable. République de Djibouti (Corne de l'Afrique).
- Dr. Maha Abdelgaffar Abdelrahim Ismail, Project Team Leader for the Groundwater-surface water conjunctive use, GEF/UNDP Project, based in Entebbe, Uganda. She is Associate Professor Geology Department University of Khartoum, and Head Department of Environmental Studies University of UMST Khartoum.
Abstract N° 34: Nile Basin Initiative (NBI) Embarks to Address Groundwater Management Challenges in the Nile Basin Groundwater Project.
- Dr Alok K. Sikka, DDG for Natural Resource Management at the Indian Council of Agricultural Research and Indian Representative at the International Water Management Institute, Delhi.
Abstract 73 Comparing groundwater use of solar and non-solar farmers in India.

Dear Muhammad, the floor is yours (10 minutes please):

MS

Presentation

JA

Dear Muhamad, thank you for your presentation, we will take questions at the end and I will ask Dr. Falk Hilliges to give us an example of the achievements and challenges in implementing the SDGs in groundwater management in a temperate country in Western Europe. Dear Falk, the Floor is yours (10 minutes please)

HILLIGES Falk

Abstract 113: Implementation of the SDGs in groundwater management in Germany – Achievements and challenges

MS

Thank you, Mr Hilliges, next speaker is MOHAMED Jalludin from Djibouti for giving the issues in a small and dry country in the Horn of Africa. Dear Mohamed the floor is yours and you can speak in French (10 minutes please).

MOHAMED Jalludin

Abstract N°82: Les eaux souterraines et les objectifs de développement durable. République de Djibouti (Corne de l'Afrique)

JA

Merci Jalludin, les conditions entre les deux pays sont très différentes mais il y a certainement des échanges et des partenariats intéressants à développer. Nous allons rester dans la même région en s'intéressant aux eaux souterraines et transfrontalières du grand bassin du Nil. Dr Ismail Maha the floor is yours (10 minutes please) :

ISMAIL Maha

Abstract N° 34: Nile Basin Initiative (NBI) Embarks to Address Groundwater Management Challenges in the Nile Basin Groundwater Project

MS

Thank you Prof. Ismail Maha (few words on her speech), last speaker will show the place of groundwater in the "water-energy-food security" nexus, and show the interest of solar energy at the crossroads of the SDGs 6, 2 and 7. Dr. Dr Alok K. Sikka the floor is yours (10 minutes please)

SIKKA Alok

Abstract 73 Comparing groundwater use of solar and non-solar farmers in India

JA

Thank you for your presentation, thank you to all the speakers we can applaud before giving the floor to the audience for some questions, we have 15 minutes, but the discussions can continue during the poster session.

MS

My colleague and friend with whom I shared the GSDR adventure, Jean-Paul Moatti, is in the room. Please let me give him the microphone for a complement, a comment or a question.

The Audience