

Topic: Revival of Australia's Ancient Murray River



Dr Tapas Biswas

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Synopsis

The mighty Murray River is the main tributary (2,500 km long) within the Murray-Darling Basin, which is Australia's largest river basin, covering an area of more than one million square kilometers.

This talk will cover what went wrong with this ancient basin, especially its main tributaries and how actions such as water resources management policy change, environmental flow and community engagement are revitalising the main tributary, Murray River.

Lessons learnt from Murray river basin would be highly useful in managing the environmental flow in Indian River Basins.

August 8, 2022
2.00 PM IST

Meeting link

<https://meet.google.com/fuj-pqde-shi>
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Host



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About the Speaker

Dr Tapas Biswas is a Senior Scientist in the Water Security Program of the CSIRO Land and Water. He is an internationally reputed water scientist who currently works and lives in Canberra, Australia. Dr Tapas Biswas has 34 years of research, teaching and consultancy experience in global water resources management. He has worked in a number of countries doing research and teaching in the field of environmental science. Dr Biswas's current research include River Basin water quality risk monitoring, modelling, forecasting and management, river productivity and health (carbon, nutrients, phytoplankton, metabolism), climate change and bushfires impact on water resources. His recent work with water quality digital sensors forms a critical part of the Australia's first satellite mission, to monitor water quality from space.

During his research, besides working in several Australian Organisations, Dr Biswas spent time at the US Salinity Laboratory and University of California at Riverside (USA); The Agricultural Research Organisation (Israel), Technical University of Berlin (Germany), International Rice Research Institute (Philippines), Indian Agricultural Research Institute (New Delhi, India), US Dept of Agriculture at Fresno (USA), China Institute of Hydropower and Hydraulics Research (Beijing, China), Nong Lam University (Vietnam), Dhaka University (Bangladesh), and Irrigation and Drainage Institute (Al-Hasa, Saudi Arabia).

Dr Biswas has over 120 publications including international journals, conference proceedings and client reports. He serves as a guest editor for the 'Soil Research' journal and is on the editorial board of 'Journal of South Pacific Agriculture' and 'Journal of Crop and Weed'. He is a honorary professor with the NSHM, a fellow of the International Organisation for Biotechnology & Bioengineering (IOBB), Vice-Chair of the NCWRI of the International Commission on Irrigation & Drainage (ICID), and executive committee member of the International Water Association (IWA) and Asia-Oceania Group on Earth Observations (AOGEO). Currently he is a member of INC-IAH.