

Topic: Space technology application in water sector, with special reference to groundwater in India



Dr. S. K. Subramanian

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Synopsis

Remote sensing technology has the advantage of incorporating the spectral data through space and time. The data can be acquired within a short period of time covering a large and inaccessible terrain. It has become a very handy tool in tracking the occurrence of groundwater resources. It also helps in the assessment, monitoring and conservation of groundwater. Satellite data provides quick and useful base line information on the aspects like geology, structure, geomorphology, soils, land use- Land cover, lineaments etc.

The talk will focus on the applicability and usage of remotely sensed data in India and various techniques to support the sustainable development and management of groundwater..

Sept. 17, 2022
3.00 PM IST

Meeting link

<https://meet.google.com/qjd-wgbj-fei>
Dial-in: (US) +1 929-399-6372
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Host



Prof. A. K. Sinha
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Moderator



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About the Speaker

Dr. S. K. Subramanian has graduated from University of Madras. He has completed his M.Sc. degree in 'Applied Geology' from Indian Institute of Technology (IIT), Bombay and Post Graduate Diploma in 'Advanced Aerial Photo Interpretation' from the same Dept. Received his Ph.D. in 'Geomorphology and Structure of outer Himalayas using Remote Sensing Techniques' from Indian School of Mines (ISM), Dhanbad. He was a Teaching Faculty in Indian Institute of Remote Sensing (IIRS), Dehradun for a decade from 1980. He was Scientist "SG"& Group Director, Hydrogeology Group at National Remote Sensing Centre (NRSC), Indian Space Research Organization (ISRO), Dept. of Space. He was the National Project Coordinator and executed the project for the Govt. of India, Rajiv Gandhi National Drinking Water Mission, all over the country.

Dr. Subramanian has more than 36 years of professional experience in the field of Remote Sensing, geomorphology and ground water. He has coordinated a number of National Mission Projects, including Integrated Mission for Sustainable Development (IMSD), National (Natural) Resources Information System (NIRS), and National Agricultural Technology Project and an international project, Mapping of the Natural Resources of Dubai using Satellite images. In addition, he was involved in several research projects, including Geomorphologic Evolution of West Coast for hydrocarbon exploration, Mass Movement in Kosi catchment and Geomorphology of Nepal.

Served as Member, High level Committee on National Drinking Water and Sanitation Council (NDWSC), Govt. of India in the area of Hydrogeology, use of Satellite data / High end technology and Drinking Water Security.

He was a Member of the Expert Committee in generating the Concept report/ Paper in formulating the Drinking Water Security plan for Tripura state and Andaman& Nicobar Islands, Ministry of Rural Development, DDWS, Govt. of India

He has received certificate of appreciation from Prof. L. W. Fritz, President, ISPRS for significant contribution to the scientific and technologic activities of ISPRS as Secretary of Working Group VII/2 "Applications of Remote Sensing and GIS for Sustainable Development" during the period 1996-2000 also as Joint Secretary of ISRS for two terms.

Dr. Subramanian has authored or coauthored nearly 40 publications. He is one of the editors of the book 'Geoinformatics in Applied Geomorphology' published by CRC press, Taylor& Francis Group.

He was Mackenzie Chair Professor of DST, Govt. of India at Institute of Remote Sensing, Anna University, Chennai during 2015-16

Presently Dr. Subramanian is serving at Art of Living, Bengaluru in River Rejuvenation Project as Advisor, Technical.