

## NOTES

### WORKSHOP ON LATEST TRENDS IN GROUNDWATER ASSESSMENT AND MANAGEMENT

A three-day workshop on "Latest trends in Groundwater Assessment and Management" with emphasis on data collection, validation and analysis of groundwater, sponsored by the Department of Mines and Geology (DMG), Government of Karnataka was organized in the Geology Section, Department of Civil Engineering, Karnataka Regional Engineering College (KREC), Surathkal during 18th-20th June 2002. Dr. M. Basappa Reddy, Director, DMG, inaugurated the workshop. During his keynote address Dr. M. Basappa Reddy highlighted the second phase of hydrology projects. Dr. T.N. Venugopal, Dy. Director, DMG, gave the details regarding hydrology projects of the second phase.

Various external and internal resource persons presented papers in the workshop. In the afternoon session Prof. B. Ismail, Department of Statistics, Mangalore University presented a paper on application of SPSS software and interpretation. It was followed by a paper on statistical methods useful in hydrological data analysis presented by Prof. K. Aruna Rao, Department of Statistics, Mangalore University. Dr. D. Venkat Reddy, Geology Section, KREC, presented a paper on geological and hydrological parameters in groundwater movement and storage in hard rock terrains of Karnataka.

On the second day, Prof. S.G. Mayya, Department of Applied Mechanics, KREC, discussed the fundamentals of groundwater flow. Prof. K.N. Lokesh, Geology Section, presented a paper on groundwater exploration with special reference to applications and interpretation of VES data. He also shared his field experiences with the participants. Dr. N. Lakshman, Department of Applied Mechanics, delivered a lecture on surface water and groundwater resource relationship. A paper on groundwater resource assessment: numerical modelling and physical investigation was presented by Dr. M.K. Nagaraj of Department of Applied Mechanics, KREC. The programmes of the second day were concluded after a field visit to various parts of Udipi District to examine active coastal erosion and its impact on seawalls.

On the third day, Dr. A. Mahesha, Department of Applied Mechanics, presented a paper on saltwater intrusion problems – data collection, simulation and validation of numerical models. Dr. G.S. Dwarakish, Department of Applied Mechanics, presented a paper on interpretation of satellite imageries for groundwater exploration. He also gave the details regarding various techniques used in remote sensing. It was followed by a presentation of aquifer parameters estimation – field measurement and inverse modeling case in points by Dr. M.K. Nagaraj, Department of Applied Mechanics. Dr. N. Lakshman, Department of Applied Mechanics, delivered a lecture on groundwater recharge estimation: new methods – a few case studies. It was followed by a paper on groundwater quality, data collection and analysis by M. Balamuralikrishna, Department of Civil Engineering, NMAMIT, Nitte.

All the papers presented in the workshop highlighted different aspects of data collection, validation and analysis of groundwater.

A group discussion followed the presentation of papers, chaired by Prof. S.G. Mayya. All the participants of the workshop actively took part in this group discussion.

The valedictory function was presided over by Sri P. Balakrishnan, Director, GSI, Marine Wing, Mangalore. During his valedictory address he stressed on the wise utilization of groundwater. The function came to an end with thanksgiving by Sri Subhas C. Yaragal, Department of Civil Engineering, KREC. Dr. D. Venkat Reddy, Assistant Professor, Geology Section, Department of Civil Engineering, KREC, was the workshop convener, who made every effort in the smooth conduct of the workshop.

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