

IEI Celebrates World Water Day

Theme : **Wastewater**

The World Water Day was celebrated by the Institution all over the country on March 22, 2017. Reports of celebration received from various Centres are highlighted here.

STATE CENTRES

Chhattisgarh



The Chief Guest Prof (Dr) M K Verma, Vice Chancellor, Chhattisgarh Swami Vivekananda Technical University, Bhilai, in his Keynote Speech highlighted various problems and prospects of management of surface and ground water with respect to Chhattisgarh state. He stressed on the necessity

of conservation and management of water resources in day-to-day life of common people. He, further, urged that "More Crop Per Drop" principle should be adopted by the farming community in view of the current climate change scenario. Earlier, Mr Jagdish Prasad Saboo, Chairman of the Centre welcomed the gathering and Dr Vinay Kumar Pandey, Honorary Secretary of the Centre highlighted various activities of the Centre. Dr. Vinay Kumar Pandey, also proposed the vote of thanks.

Delhi

Mr Devendra Gill, Chairman of the Centre, in his welcome address, mentioned that sanctity of pure drinking water is posing threats to all living creatures. He stressed on focusing the recovery of wastewater to counter the menace. Mr Alok Suman, Treasurer, IPHE, delivered lecture on "Wastewater Treatment: Technology Options". He discussed



on wastewater system, need for safe sanitation system, standard of treated effluent discharge along with various aspects of wastewater. Mr K A Roy, Honorary Secretary, IPHE, Delhi Regional Centre, delivered lecture on the topic "Ganga River Pollution Abatement: Past, Present and Future". Mr R N Rajpoot, Chairman, IEIT [UK], Delhi Local Network, stressed on implementing collaborative efforts to reduce the pollution of rivers in India. Mr Praveen Kumar Singh, Honorary Secretary of the Centre proposed the vote of thanks.

Gujarat



Mr Navinchandra B Vasoya, President, IEI, graced the occasion as the Chief Guest and addressed the gathering. The Guests-of-Honors, Mr O T Gulati, Past Chairman, Water Management Forum (WMF), IEI and Mr Bharat S Patel, Council Member, IEI delivered lectures on the theme

of the day. Eminent Speakers, Mr Vivek P Kapadia, Chief Engineer (CG)

and Additional Secretary, Government of Gujarat and Mr J K Vyas, Centre of Environment Education, also addressed the gathering. They stated that water has to be carefully managed during every part of the water cycle. They opined that there are many treatment processes and operational systems that will allow us to use wastewater to meet the growing water demand in growing cities, support sustainable agriculture and enhance energy production and Industrial development. Mr H U Kaliyani, Honorary Secretary of the Centre, proposed the vote of thanks.

Jammu & Kashmir

The Chief Guest, Prof Abdul Rashid Dar, Director, National Institute of Technology, Srinagar, highlighted the role of engineers with respect to wastewater. While speaking on 'Dal Lake', he stressed that necessary steps should be taken immediately by the engineers for preserving the lake. Mr Mohammad Ashraf Fazili, Chairman of the Centre, while addressing the gathering highlighted various aspects of negligence meted out by the society with respect to use of water and reclamation of wastewater. He also said that wastewater management is being neglected and wastewater is grossly undervalued as a potentially, affordable and sustainable source of water, energy, nutrients and other recoverable materials. Mr Reyaz Ahmad Khan, Honorary Secretary of the Centre, also addressed the gathering. Technical papers embracing the main theme were presented by the experts.

Jharkhand

Mr Sanjay Sen, Chairman of the Centre, in his welcome address emphasized that the waste generated either from domestic use or industrial use should be tapped properly and should be recycled for its better use



instead of releasing to canals or rivers. The Chief Guest, Mr Shardendu Narayan, former Engineer-in-Chief, Government of Jharkhand spoke about various wastewater utilisation technologies being implemented in irrigation, domestic and industrial use. The Keynote Speaker, Mr Kanchan Gupta, Deputy General Manager (FSPD), MECON Ltd, made a presentation on 'Zero Liquid Discharge - ZLD Technology' and its implementation in various industries and importance and challenges. He spoke about various technologies on which ZLD plant works. Mr A P Roy, Past Chairman of the Centre, spoke about wastewater treatment of paper and pulp industry. Mr Sameer S Batwe, AGM (FSPD), MECON Ltd, emphasized the need of water auditing in industrial and domestic usage. Mr M R Kumar, Honorary Secretary of the Centre, proposed the vote of thanks.

Odisha

Prof (Dr) Pravat Kumar Parhi, Chairman of the Centre, presided over the function and welcomed the gathering. The Chief Guest, Mr Santosh Kumar Pattanayak, Advisor to Government, Department of Water Resources, Govt. of Odisha, stressed on optimized use of water and sustainable management



of water resources for domestic, agricultural and industrial cases, recycling and reuse of wastewater in various sectors, improvement of water quality management of wastewater in agriculture, industries and other allied fields. Mr

Ramesh Chandra Tripathy, Former Engineer-in-Chief, Department of Water Resources, Govt. of Odisha, graced the occasion as Guest-of-Honour. The Chief Speaker, Prof (Dr) Prakash Chandra Swain, Civil Engineering Department, Veer Surandra Sai University of Technology, Burla, delivered

lecture on 'Wastewater'. Mr Prasanta Kumar Tripathy, Committee Member, Odisha State Centre, proposed the vote of thanks.

Puducherry



Organized jointly with (i) Sri Manakul Vinayagar Engineering College where Mr V Radhakrishnan Hydrologist, (Retd), Government of Puducherry and Project Consultant, NABARD, delivered

lecture on 'Waste Water Management' and (ii) Pondicherry Engineering College, Department of Civil Engineering where Dr P Dananjayan, Principal, Pondicherry Engineering College, presided over the function and Mr Probir Banerjee delivered the invited lecture. Dr D Giridhara Rao, Honorary Secretary of the Centre, proposed the vote of thanks.

Punjab & Chandigarh

Mr S R Ladhar, Financial Commissioner, Rural and Panchyats (Punjab) was the Chief Guest on the occasion. Mr Jagroop Singh, Vice President, IEI and Dr S K Jain, Regional Director, Central Ground Water Board, Chandigarh,



graced the occasion as Guests-of-Honour. The Keynote Speaker, Mr S K Saigal, Scientist "D", Central Ground Water Board, Chandigarh delivered lecture on the theme of the day. Students from Chitkara University, Guru Nanak Dev Engineering College, Ludhiana and Baba Banda Singh Bahadur Engineering College, Fatehgarh Sahib, also made their presentations. All the dignitaries stressed upon reusing and recycling of wastewater using recent technologies. Detailed clarifications on the topic were explained and important issues were highlighted for creating awareness amongst the common people.

Tamilnadu



The Chief Guest, Dr P Shanmugam, Senior Principal Scientist, CSIR-Central Leather Research Institute Chennai, stated that most of human activities produce wastewater and over 80% of the world's

wastewater is released to the environment without treatment. He stressed for limiting the discharge of untreated wastewater into nature which not only saves lives and strengthens healthy ecosystems, but can help advance sustainable growth. 'To meet the growing demand, wastewater can be a reliable alternative source of water – this calls for shifting the paradigm of wastewater management from 'treatment and disposal' to 'reduce, reuse, recycle and resource recovery', added Dr Shanmugam. Earlier, Mr P R Seshadri, Past Chairman of the Centre, welcomed the gathering and Mr P Rajamani, Council Member, IEI, elaborated the theme of the Day. Mr R Ramdoss, Honorary Secretary of the Centre, proposed the vote of thanks.

Telangana

The Chief Guest, Dr. B Janardhan Reddy, Commissioner, Greater Hyderabad Municipal Corporation, stressed that it is need of the hour to conserve water and also to make the use of treated water after recycling for the purpose of gardening and washing. The Guest-of-Honour, Mr M Dana Kishore, Managing Director,



Hyderabad Metropolitan Water Supply and Sewerage Board [HMWS&SB], stressed on the efforts taken by HMWS&SB and to provide drinking water to all citizens from Krishna and Godavari rivers. The other Guest-of-Honour, Mr K Sudhir Reddy, President, Telangana Industrialists Welfare Federation also addressed the gathering. Dr P G Sastry, former Chairman, Committee for Environmental Clearance of Irrigation and Hydro Power Projects, Govt. of India, delivered Keynote Address on 'Wastewater'. Dr, Seeram Satyanarayana, Chairman of the Centre, presided over the function. Earlier, Mr G Rameswar Rao, Honorary Secretary of the Centre, welcomed the gathering. Vote of thanks was proposed by Mr V Jambul Reddy, Honorary Secretary, IWWA, Hyderabad Centre.

Uttarakhand

The Chief Guest, Mr Anand Bardhan, Principal Secretary, Irrigation, Minor Irrigation, Watershed Management, Sainik Kalyan, Department of Food and Civil Supplies, Government of Uttarakhand, in his address, stressed on organising such type of awareness programme



frequently for the benefits of large community to educate them about water management. Mr R Chalisgaonkar, Engineer-in-Chief, Irrigation Department; Mr Mohd Umar, Chief Engineer, Minor Irrigation Department; and Mr Anurag Khanna, HOD, Central Ground Water Board, Government of Uttarakhand, graced the occasion as Guests-of-Honour. They presented the data of water available for human consumption and its availability in future years. They also explained the need for applying new techniques of irrigation by the farmers. The method of minor irrigation in hilly areas of Uttarakhand was also explained by them. The Keynote Speaker, Mr Prabhat Raj, Chief Engineer, Pey Jal Nigam, Uttarakhand, emphasized the need for save water with the slogan "Save Water Save Life". Mr Narendra Singh, Council Member, IEI; Mr C M Dimri and Mr R P Jamloki, Past Chairmen of the Centre, also attended the function. Earlier, Mr R V S Chauhan, Chairman of the Centre, welcomed the gathering. Mr V K Saxena, Honorary Secretary of the Centre, proposed the vote of thanks.

Uttar Pradesh

Mr A K Singh, former Chief Engineer, U P Rajya Vidyut Utpadan Nigam, said that only 60% of industrial wastewater is treated and lamented that even state owned treatment plants are not complying with prescribed standards. Thus effluent from the treatment plants is usually not suitable for household purposes and reuse of wastewater is mostly restricted to agricultural and some industrial purposes. He stressed on proper treatment of wastewater for environmental protection, saving the aquatic life and providing safe river water and ground water. Earlier, Dr Bharat Raj Singh, Chairman of the Centre, in his welcome address, highlighted the importance of pure drinking water and its scarcity. Mr V B Singh, Council Member, IEI, also attended the function. Mr Rajesh Kumar Trivedi, Honorary Secretary of the Centre, proposed the vote of thanks.

West Bengal

The Chief Guest-cum-Theme Speaker, Mr Ratikanta Ghosh, Managing Director, Effluent & Water Treatment Engineers (P) Ltd, Kolkata, spoke about the measures taken to deal with the problems of wastewater around the area of Malanjkhand Copper Mine located at north-east of Balaghat, Madhya Pradesh. Earlier, Mr Kashmir Lal Mallik, Chairman



of the Centre, in his welcome address, highlighted the issues related to wastewater and the need of its effective treatments. Dr Debasis Nag, Chairman, Agricultural Engineering Division of the State Centre, elaborated the theme of the Day. Mr Ranjan Dutta, Honorary Secretary of the Centre, proposed the vote of thanks.

LOCAL CENTRES

Agra



Mr Devendra Singh Chaudhary, Chairman of the Centre, welcomed the gathering and presided over the function. The Guest-of-Honour, Dr Rajeev Kumar Upadhyay, Director, Hindustan College of Engineering and Technology,

Mathura, talked about conservation of water. The Speaker, Dr Anand Rai, President, India Rising (NGO), spoke on conservation of water and rainwater harvesting. He stressed for storing rain water in ponds for recharging the earth. The other Speaker, Dr N C Tripathi, Head, Department of Environment Engineering, HCST, Mathura, expressed his views on global warming due to greenhouse effects. Dr B D K Patro, Honorary Secretary of the Centre, presented his views on waste water. He also proposed the vote of thanks.

Ahmednagar

The Keynote Speaker, Mr Kishor Waikar, Deputy General Manager (Plant Engineering), Larsen & Toubro Ltd, Ahmednagar, stated that reduction and reuse of waste water is necessary for sustainable development. He felt that waste water should be treated and made usable in all fields wherever possible, such as, gardening, domestic usage, farming, industrial processes, etc. He also presented the case study of Water Treatment Plant commissioned by Larsen & Toubro Ltd at Ahmednagar. Mr A P Pargaonkar, Chairman of the Centre appealed to adopt small techniques for minimizing usage of water and to avoid wastage of water. Earlier, Mr H B Thigale, Honorary Secretary of the Centre, introduced the theme and welcomed the participants.



Asansol

Mr Ashutosh, Deputy Manager (Project), SAIL-ISP, welcomed all the guests and members present. Mr K V R Raju, Chairman of the Centre, presided over the function. He highlighted the importance and significance of the Day. Mr T T Lahiri, Honorary Secretary of the Centre, elaborated various aspects of water, sources of wastewater generation and the impact of wastewater on the planet Earth. Technical papers were presented by the Guest Speakers, namely, Mr Supratim Bose, Assistant General Manager (TS), SAIL-ISP; Mr Sachin Kumar, Assistant Manager (Water Management), SAIL-ISP; Mr Pranab Kumar Paul,

AGM (CO & CC), SAIL-ISP, Burnpur and Mr Anish Deb, Assistant Professor, Mechanical Engineering Department, Asansol Engineering College. Mr T T Lahiri presented the vote of thanks.

Bareilly



Mr Prem Prakash Gupta, Chairman of the Centre, introduced the theme of the Day and presented several ideas to create jobs related to organizations working on water and allied fields. The Keynote Speaker, Dr (Prof)

A K Gupta, Dean, MJPR University, Bareilly, highlighted the importance of freshwater sources and stressed on sustainable management of water resources. A number of speakers namely, Mr S C Sundrani and Mr K B Agrawal, Past Chairmen of the Centre; Mr S K Suri, Chairman, Institute of EHS Studies, Bareilly; Mr Shubham Mishra, Ms Akanksha Tiwari and Mr Ravi Mishra from MJPR University, Bareilly; Mr Nitin Kumar, Mr Uday Pratap Singh and Mr Siddarth Puri from Moradabad Institute of Technology, Moradabad, attended the function and expressed their views. They felt that much of the water used for domestic purposes, industries and businesses must be treated before it is released back to the environment. Mr Sudhir Kumar Gupta, Honorary Secretary of the Centre, proposed the vote of thanks.

Belagavi

Mr S M Masuti, Honorary Secretary of the Centre, welcomed the gathering. Dr B Venkatesh, Joint Honorary Secretary of the Centre, introduced the keynote speaker, Mr Krishna N Kulkarni, Director, Nichrome Testing Lab and Research Pvt Ltd, Dharwad. He delivered an excellent lecture on 'Wastewater Management'. Dr B Venkatesh, Joint Honorary Secretary of the Centre, proposed the vote of thanks.



Belapur

Mr Jaswant Navnitlal Mistry, Chairman of the Centre, welcomed the guests and dignitaries present on the occasion. The Speaker, Mr Sarvesh Garg delivered lecture on the topic "Wastewater – Reuse Recent Practices". In his speech, Mr Garg emphasized on creating awareness about the importance of water among the common people. He also highlighted the methods of conservation and reuse of water. He informed that 20 plants have been installed in Navi Mumbai to treat the water and make it reusable. The occasion was graced by the presence of Mr M B Dagaonkar, Council Member, IEI. Mr Shashi Prakash Singh, Honorary Secretary of the Centre, proposed the vote of thanks.

Berhampur



Mr Ashutosh Patra, Chairman of the Centre, presided over the function and welcomed the august gathering. In his welcome address, Mr Patra emphasized on reducing, reusing and recycling of

wastewater. Mr Ajit Kumar Samantaray, Superintending Engineer, PH Circle, Berhampur, graced the occasion as the Chief Guest. The Chief Guest,

Mr Samantaray and the Guest-of-Honour, Mr Sitaram Panda stressed on minimizing the day to day water uses and complete stoppage of unnecessary wastage of water. The Speaker, Mr Debaraja Mahapatra spoke about the supply system of "Drinking Water Project" at Janibili. Earlier, Mr Sanjaya Kumar Moharana, Honorary Secretary of the Centre, introduced the theme of the Day. Mr Jitendra Kumar Sahu, Past Honorary Secretary of the Centre, proposed the vote of thanks.

Bhilai



Mr Kailash Malhotra, Chairman of the Centre presided over the function and delivered welcome address. Mr Alok Jha, General Manager, Town Administration, SAIL, Bhilai Steel Plant and Mr

Rajeev Verma, former General Manager, SAIL/CET graced the occasion as the Chief Guest and Special Guest, respectively. Dr (Ms) Shweta Choubey, Professor, Government Engineering College, Raipur made a presentation on the theme of the Day. Mr Viteswar Nath, Honorary Secretary of the Centre, summarized the silent points expressed by the speakers and proposed vote of thanks.

Dhanbad

Mr D Bhageshwar Naik, Chairman of the Centre, presided over the function. The dignitaries attended the programme included Mr G L Kanta Rao, Deputy Director General of Mines Safety [Electrical], HQ, DGMS, Dhanbad; Mr. Vijay Kumar, DDMS [Mech], HQ, DGMS, Dhanbad; Mr D N P Singh and Dr M K Singh, Past Chairmen, Dhanbad Local Centre, IEI; Mr R Prasad, Past Honorary Secretary, Dhanbad Local Centre, IEI; Dr Vikrama Pandey, Convener of the function; and Mr S Ratnakar, Jt. Honorary Secretary of the Centre along with other renowned dignitaries. All the dignitaries expressed their views on the theme of the day. Earlier, Mr H N Karmakar, Past Chairman of the Centre, welcomed the august gathering. Technical papers on the topic 'Wastewater' were presented and discussed. Mr S Ratnakar, Joint Honorary Secretary of the Centre, proposed the vote of thanks.



Durgapur



Mr Raj Kumar Roy, Chairman of the Centre, presided over the function. In his welcome address, Mr Roy highlighted the importance of freshwater and advocated sustainable management of freshwater resources. The Chief

Guest, Prof (Dr) Kalyan Adhikari, Head, Department of Earth & Environmental Studies, NIT Durgapur, spoke about unsustainable withdrawal of water for irrigation. He elaborated various process of treating wastewater. He also stressed on reuse of wastewater in various fields. The Guest-of-Honour, Prof (Dr) Samar Kr Nandi, Head, Civil Engineering Department, NHIT Durgapur, described the process of reuse and treatments of wastewater. Mr Manik Nath Bandyopadhyay, Honorary Secretary of the Centre, proposed the vote of thanks.

Gwalior

Celebrated the day by inviting experts in the field who shared their views on the theme 'Wastewater'.



Jabalpur

The Chief Guest, Mrs. Swati Godbole, Mayor, Jabalpur Municipal Corporation, in her speech, stressed on active participation of common people for water conservation. She also apprised the gathering about the projects and policies of the Government in the field of Water Resources Management. Mr Sanjay Verma, Head, Civil Engineering Department, Takshshilla Institute of Engineering & Technology, Jabalpur,



spoke about the existence of natural water bodies like lakes, ponds and their scenario at Jabalpur city. Earlier, Mr Santosh Kumar Tiwari, Past Chairman of the Centre along with Honorary Secretary of the Centre, welcomed the gathering. Mr Durgesh Kumar Parashar, Member of the Centre, proposed the vote of thanks.

Jammu

A Seminar on 'Wastewater' was organized on this occasion. Mr Sham Lal Chaudhury, Hon'ble Minister for PHE & I&FC Department, Government of Jammu & Kashmir, graced the occasion as the Chief Guest. In his address, the Hon'ble Minister stressed on the responsibilities of every individual to save every drop of water not only for himself but also for the society. He stressed the need to recycle wastewater and reuse it for various purposes. Mr Ajay Gupta, Chairman, Jammu Local Centre, presided over the function. In his address, Mr Gupta appealed for creating awareness among the general mass for judicious and economical use of water and adopting different plans for its proper use. Papers were presented during technical sessions. Mr Sushil Aima, Chief Engineer, PHE Department, Jammu and Chairperson of the Technical Session, laid emphasis on wastewater management. Mr Bhushan Lal Rawal, Honorary Secretary of the Centre proposed the vote of thanks.



Jodhpur

Prof G K Joshi, Chairman of the Center, welcomed the august gathering. The Chief Guest, Mr Jai Singh Choudhary, Additional Chief Engineer, PHED, Jodhpur, delivered lecture on the theme of the Day. Mr Dinesh Kumar Periwal, Executive Engineer, PHED, Jodhpur, graced the occasion as Guest-of-Honour. Prof Jagdish Chandra, former Head, Department of Civil Engineering, M B M Engineering College, Jodhpur, presided over the function. Earlier, Prof Manish Kumar, Honorary Secretary of the Centre, introduced the theme of the day. He also proposed the vote of thanks.

Kanpur



Prof Devi Prasad Mishra, Chairman of the Centre, welcomed the gathering. Mr Vivek Asthana, Honorary Secretary of the Centre, introduced the Guest Speaker Prof Rajesh Srivastava, Department of

Civil Engineering, IIT, Kanpur. Prof. Srivastava, while delivering his lecture on the topic "Pollutant Transport in Ground Water", said that pollutant transport through porous media is an important aspect in various fields of science and engineering, e.g. contaminant hydrology, chemical engineering, soil science, petroleum engineering and hydro-metallurgy etc. He mentioned that the transport process through porous medium has traditionally been modeled using the advection-dispersion equation. Prof Devi Prasad Mishra, also proposed the vote of thanks.

Kota

The Chief Guest, Mr Raghuveer Singh Meena, Divisional Commissioner, Kota Division, Kota, stressed on Water Allocation Priorities and mentioned that allocation priorities should be maintained as follows:



drinking water, irrigation, ecology, agro-industries, hydro power, etc. The Guest-of-Honour, Mr Siyaram Meena, Secretary, Urban Improvement Trust, Kota, stated that water development and management should be based on a participatory approach, involving users, planners and policy-makers at all levels. The Guest Speaker, Mr Anil Kumar Jadia, Geology, Mining and Environment Consultant, stated that water is more than just essential to quench thirst or protect health; water is vital for creating jobs and supporting economic, social, and human development. The other Guest Speaker, Dr M L Parihar, Scientist, Heavy Water Board, Kota, also addressed the gathering. Earlier, Mr Chandra Kant Singh Parmar, Chairman of the Centre, welcomed the gathering. Mr Jasamat Singh, Honorary Secretary of the Centre, extended the vote of thanks.

Kozhikode

Prof (Dr) K P Mohandas, Chairman of the Centre, presided over the function. Mr C Jithesh, Honorary Secretary of the Centre, delivered the welcome address. Dr N N Panicker, formerly attached to University of California,



Berkeley, emphasized the need for community participation in solving common social problems like river protection and waste management to ensure complete success. Mr Sushanth C M, Senior Principal Scientist & Head, Ground Water

Division, Centre for Water Resources Development & Management (CWRDM) delivered lecture on 'Ground Water Exploitation and Associated Problems'. Mr Jayakumar P, Senior Principal Scientist & Head, Environmental Division, CWRDM, spoke on "Wastewater and its Reuse". He explained how reuse of wastewater can reduce the per capita consumption and even improve the underground water table by properly feeding the treated wastewater. Dr A Achyuthan, former Director, Academic Staff College, Calicut University, highlighted the causes for global warming and climate changes. Mr C Jayaram, Committee Member of Kozhikode Local Centre, proposed the vote of thanks.

Madurai

Mr K Vijayakumar, Chairman of the Centre, presided over the function and welcomed the gathering. The Chief Guest, Mr K Sakthivel, former Chief Engineer, Madurai Corporation, discussed various aspects of sewage, such as, its collection, treatment, etc. He expressed his concern about acute sewage overflows and cross contamination during monsoon season, causing public health hazard. He stressed on replacement of sewage collection system in old scheme based on hydraulic verification and proposed JNNURM improvements. Mr Sakthivel informed that treated wastewater should be re-used/recycled through a multi-pronged approach and for applications in industrial use, agricultural use etc. Mr S Subramanian, Committee Member of the Centre, proposed the vote of thanks.



Meerut

Mr Vishwas Chandra Gupta, Chairman of the Centre, welcomed the gathering. The Chief Guest, Dr Alok Agarwal, Director, JPIET, expressed his views on digitization link with processing of wastewater. The Keynote Speaker, Mr S K Kumar, Chairman, Indian Water Resources Society, Meerut Chapter, said that

recycling and reuse of wastewater will reduce pressure on surface and underground water and will promote industries, trade and generation of employment and improvement of environment. Mr S K Sharma, Chief Engineer, Irrigation Department, spoke on how wastewater is polluting the rivers with special reference to Ganga basin. Mr B D Sharma, Managing Director, Blue Gold Projects Pvt Ltd, gave some valuable ideas to improve the situation of water crisis. Mr Rajneesh Kumar, Honorary Secretary of the Centre, conducted the program. Mr C P Gupta, Past Chairman of the Centre, proposed the vote of thanks.



Munirabad

Mr T H M Somashekar, Past Honorary Secretary of the Centre, welcomed the august gathering. The Guest Speaker, Prof Vijayakumar, Civil Engineering Department, R Y M Engineering College, Bellary, discussed various aspects, such as, origin of water on the earth, uses of water, purification of sea water and protection of water sources etc. He also spoke about water sources of various countries of the world and deficiency of water to be faced in future decades. Mr A Palakshagouda, Past Chairman of the Centre, highlighted the importance and protection of water sources. Mr Rajashekargouda Patil, Honorary Secretary of the Centre, proposed the vote of thanks.

Mysore



The Guest Speaker, Mr Praveen Nagaraj, Programme Manager, CDD Society, Bangaluru, stated that wastewater is not just used water, which has potential for becoming

fresh water. He expressed his concern that most municipal wastewater is discharged into open drains and these drains feed into water bodies and contaminates. Mr Nagaraj also suggested various options available for managing the municipal wastewater generated from households. Mr B V Ravindranath, Honorary Secretary of the Centre, proposed the vote of thanks.

North Bengal

The Speaker, Mr Chiranjib Kundu, Assistant Professor, Department of Civil Engineering, SIEM, Darjeeling, West Bengal, in his address, covered various aspects, such as, wastewater and water quality issues, domestic wastewater, urban runoff, wastewater management systems, etc. He narrated different types of sewerage systems like on and off site systems, industrial wastewater, agricultural wastewater, etc. Mr Kundu also spoke about centralized and decentralized systems of wastewater management. He further highlighted the process, advantages and disadvantages of gray water recycling and reuse. Mr N C Sadhukhan, Executive Member of the Centre, proposed the vote of thanks.



Palghat

Mr A Kesavan, Chairman of the Centre, presided over the function and welcomed the gathering. The Guest Speaker, Mr Jayakumar P, Senior Principal Scientist and Head, Environmental Studies Division, Centre for Water Resources Development and Management, Kozhikode, delivered lecture on 'Wastewater'. He mentioned that reuse of wastewater is a proven reliable alternative water resource which can constitute a significant component of integrated water resources



management and provides an effective solution to cope with water scarcity. 'Reusing water in industry has the potential to reduce the cost of water supply and wastewater treatment by industries and reduces pressure on water resources', opined Mr Jayakumar. Prof (Dr) K Nambiar E K, Honorary Secretary of the Centre, proposed the vote of thanks.

Roorkee

Mr Malvinder Singh, Chairman of the Centre, presided over the function. The Keynote Speaker, Dr Prashant Singh, Professor, PG-DAV College and Coordinator, Uttarakhand Centre of Science & Technology, Dehradun, stated that quality of water is directly related to human health and thus require scientific evaluation. Dr Singh also presented pre and post monsoon water quality data analysis for determining causes and source of contamination which shall go long way for compliance with standards of water quality protocols. Prof (Dr) Achal K Mittal, Honorary Secretary of the Centre, stressed on creating awareness regarding conservation of water. Dr A K Lohani, Scientist, NIH, Roorkee and Convener of the function, proposed the vote of thanks.

Rourkela

Prof (Dr) Shishir Kumar Sahu, Honorary Secretary of the Centre, welcomed the gathering. The Speaker, Mr S S Pradhan, Head, Water Management Department, Rourkela Steel Plant, delivered lecture on the topic "Water Management in Steel Plant with Emphasis on Wastewater Management". He spoke about present global water situation, water resource in Rourkela Steel Plant, use of water in a steel plant and present concept of water management. He concluded by informing that for wastewater management, the ongoing projects are working on three 'R' concept: Reduce, Reuse and Recycle. Mr Harjit S Kanvel, Joint Honorary Secretary of the Centre, proposed the vote thanks.

Saurashtra

Prof J N Shah, Amulya Institute of Science and Technology, Rajkot, welcomed the august gathering. The Chief Guest Mr Arvindbhai Damodia, Managing Director, M/s Karnal Structure [India] Pvt. Ltd., Rajkot, advised engineers and students present to render their best service for the nation

since they are the future of India. Mr J B Kagathara, Consultant & Expert, Envirocare Engineers, Rajkot, delivered lecture on "Dual Plumbing System and Recycling Grey Water System". He said that since Saurashtra and Kutchh are water scarcity areas, Dual Plumbing System is necessary, so that, wastewater can be reused after treatment. Mr Navinchandra K Ravajibhai, Honorary Secretary of the Centre, proposed the vote of thanks.

Tiruchirapalli

Mr S Lakshmanan, Honorary Secretary of the Centre, elaborated the theme of the Day. The Speaker, Dr R Ilangoan, former Chief Engineer, PWD, Water Resources Department, Coimbatore, delivered lecture on the theme 'Wastewater'. Mr R Selvaraj, Chairman of the Centre, presented a memento to the Speaker. Earlier, Mr S Samidas, Past Chairman of the Centre, introduced the Speaker. Vote of thanks was proposed by Mr N Rajasekaran, Committee Member

of the Centre.

Udaipur

Mr Mahendra Kumar Mathur, Chairman of the Centre, welcomed the august gathering. The Chief Guest, Mr R K Chatur, former Chief Engineer, Irrigation, Government of Rajasthan, elaborated the possibility of systematic discharge of sewerage in Udaipur City. He suggested some proposals for cleanness of Aahar river and discussed about past, present and future availability of water resources in and around Udaipur. The Guest Speaker, Mr Davendra Singh Seervi, General Manager (Engineering), J K Tyre & Industries Ltd, Kankroli, in his presentation spoke about usages of blue, green and gray water and stressed upon specifically on economization of uses of water. He stressed on rainwater harvesting. Mr Anurodh Prashant Sharma, Honorary Secretary of the Centre, proposed the vote of thanks.

