

## Urban Water and Sanitation | Smart Buildings Engineering

### Oral Presentation

#### Session 2.1: Energy Systems and Smart Buildings

Time: 10:00 am - 11:30 am

Venue: Room Number: 11, VMCC

ID Title

- 10 Multi-objective Performance Assessment of Climate Adaptive and Artificially Intelligent Dynamic Facades
- 19 Reviewing Energy Flows in a Smart Office Building
- 52 Smart Building with Natural Lighting Design using BIM concept- A Sustainable Approach
- 107 On Organization and Management of Community Energy Systems as Common Pooled Resource
- 121 Desk-Farmer: Cultivation on the Office-Desk
- 127 Sensitising performance of Air Purifiers for the Buildings in Urban Core

#### Session 2.2: Water and Sanitation Technologies and Approaches

Time: 10:00 am - 11:30 am

Venue: Room Number: 13, VMCC

ID Title

- 44 Diffusion of Building Information Modeling in Indian Water Projects: A Social Capital Perspective
- 87 Review of Circular Economy in Urban Water Sector: Redefining 6Rs
- 88 Use of Shafts in Water Supply System in India: Case Studies from Maharashtra
- 102 Neighbourhood Corporative and Inclusive Water Supply Services In Slums, Bhuj
- 110 A Decision-Support Work-book for Choosing a Sanitation Technology

#### Session 2.3: Built-environment and Climate Change

Time: 11:45 am - 01:15 pm

Venue: Room Number: 12, VMCC

ID Title

##### Special session by Indian Green Building Council (IGBC)

- 80 Association between Built-Environment and Liveability: Case of Mumbai Slum Rehabs
- 108 Optimizing Building Fenestration Design for Daylighting and Energy Savings in Low Income Housing: Case of Mumbai, India
- 141 The Trade-Off between the Economic and Environmental Impact of Conventional and Green Building Materials

#### Session 2.4: Urban Flood and Assessments

Time: 11:45 am - 01:15 pm

Venue: Room Number: 14, VMCC

ID Title

- 98 Real-time Flood Mapping with Temporal SAR Images using ESA CloudToolbox Service
- 112 Evaluation of Rainwater Harvesting Potential in Residential Urban neighborhood of Vijaywada
- 113 Water Demand Modeling Approaches: Understanding Suitability in Indian Context
- 115 Developing Water Resiliency Through Recycled Water For Kalyan Dombivili City
- 131 Assessment of Urban Water and Sanitation Services - A Case Study of Hyderabad

**Special Session: Transportation Group of India**

Time: 02:15 pm - 03:15 pm

Venue: Room Number: 11, VMCC

**Session 2.5: Smart Technologies for Climate Change**

Time: 04:15 pm - 05:45 pm

Venue: Room Number: 11, VMCC

ID	Title
24	Understanding the effect of occupant behaviour on thermal comfort and energy use in slum rehabilitation housing
38	Feasibility analysis of PV-Battery and PV-TES for Cooling application in Buildings
67	Fenestration for the Industrial Neighbourhoods: A Case of Jeedimetla, Hyderabad
78	Strength of Fly Ash Based Rammed Earth Block Reinforced with Natural Fibers
135	The Potential Use of Municipal Solid Waste in The Form of Construction Debris , Particularly Waste Marble and Waste Concrete in Flexible Pavements
142	Fiber Reinforced Polymer Jacketing on Concrete

**Session 2.6: Policy and Governance of WASH Infrastructures**

Time: 04:15 pm - 05:45 pm

Venue: Room Number: 13, VMCC

ID	Title
32	Assessment of Sanitation Policies Towards Achievement of ODF Status: Case of Goa
95	Bridging Gaps in Policy and Practice Related to The Usage Of Treated STP Water In Goa
106	Enabling Provision of Faecal Sludge Management Services in Small Towns: A case of Alleppey, Kerala
136	Governance of Domestic Water Supply in Small and Medium Towns of Karnataka
149	Understanding Local-Level Political Economy of Urban Water Supply To Poor: The Case Of Mumbai
150	Deciphering the Indore Story: Assessing Solid Waste Management with Focus on the Last Mile of Operations

**Poster Presentation****Theme 2: Urban Water and Sanitation**

Time: 03:15 pm - 04:15 pm

Venue: Ground Floor Foyer, VMCC

ID	Paper Title
12	Qualitative and Quantitative Assessment of Water Supply in Powai, Mumbai
109	Integrating Urban Water Management (IUWM) – A Potential Solution in Managing Urban Water Challenges Sustainably
125	Prioritisation of Water Supply: A Study of Shivpuri Town
146	Identification and Removal of Microplastics from Water Sources in Kolhapur.
159	A Review on Methods for Estimating Quantities of Faecal Sludge Produced in Urban India

**Theme 3: Smart Buildings Engineering**

Time: 03:15 pm - 04:15 pm

Venue: Ground Floor Foyer, VMCC

ID	Paper Title
21	Automatic Ventilation Control System
33	Estimating Gap in Generation and Recycling of Concrete Waste: MFA Approach
63	An Empirical Analysis of Green Roof as a Possible Alternative to the Roofs of Tropical Warm Humid Climate
76	Tracking Environmental Information Conditions in a Building System
79	Analysing the Impact of Interior Design on Indoor Ventilation in Low-Income Housing
111	Facade-Based Solar Energy: Potential, Policies, Recommendations for Indian Cities
122	Sources and Impacts of Indoor Air Pollution in Households
153	Smart Building Models: Using Smart Technologies to Achieve Energy Efficiency in Buildings