

SATHYABAMA
INSTITUTE OF SCIENCE AND TECHNOLOGY
INTERNATIONAL CONFERENCE ON SUSTAINABLE TECHNOLOGIES IN BUILDING AND ENVIRONMENT (ICSTBE-2018)
PRESENTATION SCHEDULE

SESSION 1 : Sustainable Urban Development - I SESSION CHAIR : Dr. Rama Subramanian Co-Chair : Dr.Suresh Kuppusamy
Date : 23.01.2018 Time : 1.30 P.M. – 3.30. P.M Venue : I Rapporteur : Ar.Arulmalar

S.No.	Participant Name	Title of Presentation
1.	C.Ezhil Maran &J.Safrin Rex Dulcie	Sustainable quotient of Kasi Viswanathaswamy temple agraharam
2.	SudhaGopalakrishnan	Impact of urbanisation on vernacular buildings
3.	Allu Revathi Devi &Vamsi Deepak TSV	The Social and Environmental Dimensions in Housing
4.	E. Horrison, L. R. Amirtham & V.Shankar	Urban Heat Island pattern and the role of urban morphology in Chennai, India
5.	Deepalakshmi S ,& Dr.Lilly Rose Amirtham	Temple tanks an integral part of cultural and ecological aspects of a town - Kanchipuram – a case study
6.	Sathish Kumar. T & Arivumani. V	Study on Urbanization Climatic conditions and Thermal Comfort in Hot and Humid – Chennai City
7.	K.Edhaya	Sustainable redevelopment through landscapes
8.	Dr.SudhyaMahimkar & KetakiNiteenGupte, & Ashwini K. Bhosale	Aesthetics versus sustainability: an exploration in metropolitan environment
9.	Parvathi Ramesh	Greening historic urban landscape of Mahabalipuram
10.	Sona Alex & Harshalatha	Infrastructure and sustainable development in Bangalore

SESSION 2 : Climate & Built Environment - I SESSION CHAIR : Dr.T.K.Prasanna Co-Chair : Dr.G.Shanmugapriya
Date : 23.01.2018 Time : 1.30 P.M. – 3.30. P.M Venue : II Rapporteur : Ar.Shankar

S.No.	Participant Name	Title of Presentation
1.	Jayanthi.V	Rethinking community spaces: an investigation on how open gathering spaces can become sustainable, cultural and social assets in an urban context
2.	SnehaBodhankar&Vaijayati Yadav	Healthy Environmental and Safety in Buildings
3.	Catherine Selvaraj&Seethavisalakshi. K	A study on designing of institution with courtyards in the current scenario
4.	Swethasudhan & EbinHorisson.S	Impact of morphology of residential campus on microclimate
5.	SonaliWalimbe	Need to connect children to Nature for a sustainable future.
6.	M. Dharini	A perspective on transition spaces in institutional buildings
7.	Madhumitha.K	Evolution of performing space – A Sustainability perspective
8.	Harshalatha& Pooja B I	Integration of social interaction and sustainability in high-rise structures- a study in Bangalore
9.	S. HenyaStephi & S.EbinHorrison	Modification of microclimate conditions and bringing outdoor thermal comfort in urban residential clusters
10.	B. Vedhajanani& Dr. A. Lilly Rose	Spatial and cultural aspect of Courtyard
11.	Kokila M.P. & Ramya R	A Study on Sustainable Tall Buildings

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PRESENTATION SCHEDULE

SESSION 3 : WATER RESOURCES MANAGEMENT **SESSION CHAIR : Dr.K.V.Jayakumar** **Co-Chair : Dr.S.Packialakshmi**
Date : 23.01.2018 **Time : 1.30 P.M. – 3.30. P.M** **Venue : III** **Rapporteur : Ms.T.K.Padmini**

S.No.	Participant Name	Title of Presentation
1.	M.Alaguraj	Study of ancient water storage system on forts in Krishnagiri district of tamilnadu
2.	Albert Joseph Hefferan	Sustainability and Waste water management: A literature study of Kolkata's Wetlands.
3.	Padmini.T.K, Packialakshmi.S,Parameswari.K	Evaluation of Water Quality Parameters of Chembarambakkam and Madhuranthagam Lake.
4.	Ar. M Shanthini	Traditional Water Management Systems around Madurai – Past, Present & Future - An overview
5.	S Vanitha, P Krupakar Rao,	Experimental analysis of korattur lake water
6.	S.Dhamodaran, M.Lakshmi	Hydrological model for flash flood prediction and flood level monitoring in reservoir using web server
7.	Lalitha Munagala	Seasonal water logging problem in Tamil Nadu
8.	Aditi Goel	Adsorption Kinetics of Heavy Metal accumulation of soils of Swarna River Basin, Udupi District, Karnataka
9.	Needhidasan.S	Smart irrigation for smart cities for future india – A study
10.	B.Subhasree, Shanmuga Priya G	Urban Green Cover: a global survey of Landscape Policies and Development Regulations
11.	S. Sorna Selina Sukirtha, Nisha.K	Affordable Housing - demystifying the current trends and strategic planning policies in the context of Peri -Urban areas of Chennai
12.	Mookambika BA,D.Jayanthi	Strategic Approaches to Sustainable Urban Renewal in infrastructure sector in Developing Countries- Case Based Analysis of Poonamallee suburban, Chennai, TN
13.	Swetha.K, A. Meenatchi Sundaram	Study on Geo behavioral environment of Institutional Pathways

SESSION 4 : STRUCTURAL SUSTAINABILITY- I **SESSION CHAIR : Dr. K.Muthumani** **Co-Chair : Dr.R.Padmapriya**
Date : 23.01.2018 **Time : 1.30 P.M. – 3.30. P.M** **Venue : IV** **Rapporteur : Mr.Bose Christy Arun**

S.No.	Participant Name	Title of Presentation
1.	Alwyn Varghese, Anand.N,Prince Arulraj.G	Studies on Behaviour of Fire Affected Fiber Reinforced Concrete
2.	D. Ashok , P.Lakshmi Teja	Influence of partial replacement of coarse aggregate with cinder on the properties of light weight aggregate concrete
3.	K.Chiranjeevi, M.M.Vijayalakshmi	Effect of Fly ash based Geopolymer Concrete by Applying Nano Technology-A Review
4.	Damyanti G Badagha, C D Modhera	Parametric Experimental Studies on Sustainable Concrete Containing Waste under Different Curing Conditions
5.	Dhruv Malaiya	Comparison of behavior of RC frame designed by conventional and performance based method
6.	S.Lalitha	Experimental study on corrosion prevention r.c.slab with coated rebars
7.	M. Meenaanjali, Govindaraj	A comparative study on force based design and performance based design of RC frame
8.	R.Manikandan	Behavioural study on steel concrete composite slab with marine concrete
9.	Manoj Kumar, Dr. Mageswari, Saravanan	Study of recovery of mechanical properties of self-healing concrete using super absorbent polymer (sap)
10.	Mohammad Ehraz Akhtar, S. Elavenil	Dynamic Response of Strengthened RCC Structural Elements under Blast Loading
11.	V.Preetha, Dr.V.Senthilkumar, S.Dhivyabarathi	Finite Element Analysis of Conventional Reinforced Concrete Slab with Composite slab using Profiled deck
12.	Rizwana Azeem B, Ar. Chandramathy I, Ar. Thangalavanya S	Evaluation of Thermal Properties of Coconut Shell as Coarse Aggregate in Concrete
13.	Somil Khattar, Muthumani K	Seismic performance of existing high-rise building
14.	Sripranap	Experimental study on behavior of rc cantilever beam subjected to cyclic loading
15.	Swaran K R	Influence of diaphragm wall and raker pile on seismic capacity of berthing structure
16.	Varun Singh Chandel, Yamini Sreevalli.I	Numerical study on influence of masonry infill in a multi bay single storey RC frame
17.	Anandu Sreeraj, Arun Roy, Mathew Paul, Noel Francis and V Vasugi	Influence of steel shots in achieving High density concrete

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PRESENTATION SCHEDULE

SESSION 1 : CLIMATE & BUILT ENVIRONMENT - II SESSION CHAIR : Dr. Iyer Vijayalaxmi Kasinath Co-Chair : Dr.N.Jothilakshmy
Date : 24.01.2018 Time : 11.00 A.M – 12.30. P.M Venue : I Rapporteur : Ar.Arulmalar

S.No.	Participant Name	Title of Presentation
1.	Saranya .V.G	Sustainability in contemporary-vernacular architecture
2.	Haris Bin Arif&Jyoti S. Gidaviry	Critical analysis of parameters for net zero energy buildings in Oman
3.	R. Rupa& Dr. P. Vasanthi	Impact of Thermal Comfort in Naturally Ventilated Residential Buildings in Urban Coastal Area and Peri Urban in Chennai , India.
4.	Shilpa Das I &P.S.Rashmi Infanta	Evaluation of building physics phenomenon : a comparison between vernacular and contemporary buildings in the context of warm humid climate
5.	Surya A	Climate change and the built environment Effectiveness of Product, Process & Performance
6.	Sandhya.P&Kavitha.D	Thermal Comfort in Classrooms: A Comparative Study of the Change over a Century
7.	Jyoti S. Gidavir&Haris Bin Arif	Alternative sources of energy conservation in Institutional buildings
8.	Mamatha.N	Enhanced indoor Environmental quality & Management strategies
9.	K.Madhuri&T.Dhanasekar	Adaptive building envelope
10.	Vijayalakshmi S	An approach to climate responsive design for the Chennai city on the basis of Mahoney tables
11.	KasirajanKanagaraj	Passive Ventilation in Modern Residential Buildings in Warm and Humid Tropical Climate

SESSION 2 : CLIMATE & BUILT ENVIRONMENT - III SESSION CHAIR : Dr.A.K.Kasturba Co-Chair : Dr.G.Shanmugapriya
Date : 24.01.2018 Time : 11.00 A.M – 12.30. P.M Venue : II Rapporteur : Ar.Shankar

S.No	Participant Name	Title of Presentation
1.	Indra.C&Dr.KumudhavalliSasidhar	Sustainability in vernacular architectural practices – a case study of Kerala vernacular architecture in Malappuram
2.	Anitha M & Dr. K. Yogeswari	Thermal comfort in classrooms in warm humid climate
3.	R.Raammnath&Dr.D.Jayathi	Challenges and Approaches in the Conservation of Aathangudi Tiles towards Sustainable Development of Chettinad Region
4.	Tony Marcel Nisha &Dr.P.Jayasudha	The cultural facets of sustainable built environment
5.	Anju Elsa Kurien	A comprehensive study on the contribution of earth architecture towards a sustainable environment
6.	Annalakshmi.L&Dr.KumudhavalliSasidhar	Sustainability of traditional religious core in the urban context of Chennai- The case of Mylapore
7.	Dr.ShanmugaPriyaGnanasekaran	Passive design strategies and thermal performance of traditional buildings in Tamilnadu: A summary of findings of sustainable design studio exercises
8.	VidhyaLakshmi.P	Sustainable urban development with a case study of historic core of Madurai
9.	Anuradha Menon & Dr. RaneeVedamuthu	Sustainable development of heritage areas – exploring the historic urban landscape approach
10.	Vidya	Sustainability in vernacular practices
11.	Kavitha Suresh	Unique Hues of Mud Architecture

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SESSION 3 : ENVIRONMENTAL SUSTAINABILITY - I **SESSION CHAIR : Dr. S. T. Ramesh** **Co-Chair : Dr.V.Sampathkumar**
Date : 24.01.2018 **Time : 11.00 A.M – 12.30. P.M** **Venue : III** **Rapporteur : Ms.R.Nirmala**

S.No	Participant Name	Title of Presentation
1.	Surya S, Venket S, Sampathkumar V	long-term measure to relieve traffic congestion at shollinganallur intersection in chennai
2.	Alein J S, Anumeena S U, Vasugi K	A comparative study on plastic wastes in flyash bricks
3.	Prieya Arun	Sustainable transportation planning and management
4.	G.PremalathaPraveen	Sustainable transportation planning and management in historic district of chennai – george town.
5.	Arulmalar , Jothilakshmy Nagammal	Applications of secondary post consumer packaging materials in temporary structures: an overview
6.	Naga Subramanian.G	Utilisation of used foundry sand in concrete
7.	S.Devi mirnalini, G.Devi sridevi, M.Praba	Utilization of copper slag as a partial replacement of fine aggregate in concrete
8.	Samuel Simron Rajkumar. J, Vijayalakshmi. M.M. Murugasan. R and Lakshmi. S	Evaluating the performance of bituminous concrete using polyethylene with superpave gradation
9.	Prithiv.S, Rajendhran	A study of risk assessment and management in construction
10.	Saravanan.S, Nagajothi.S, S.Elavenil	investigation of manufactured sand in geopolymer concrete
11.	A.Kandasamy, D. B. Jabaraj, M.Chandran	Experimental study on the performance and emissions characteristics of ci engine using biodiesel (methyl ester of cotton seed oil) with al2o3

SESSION 4 : STRUCTURAL SUSTAINABILITY- II **SESSION CHAIR : Dr. G. Mohan Ganesh** **Co-Chair :Dr.M.M.Vijayalakshmi**
Date : 24.01.2018 **Time : 11.00 A.M – 12.30. P.M** **Venue : IV** **Rapporteur : Ms.M.Shanmuga Priya**

S.No.	Participant Name	Title of Presentation
1.	R. Padmapriya, V.K. Bupesh Raja, V. Ganesh kumar, J.Baalumurugan	Study on strength of concrete by replacing Coarse aggregate with induction furnace steel Slag and cement by ramming mass
2.	C.Divyapriya	Multiscale modeling of concrete for determining concrete creep compliance
3.	Shanmugapriya.M, Nirmala R	Flexural behaviour of Self Compacting Concrete using Bagasse Ash and Polypropylene Fibers
4.	Nirmala R, Dr. R. Rajkumar	Experimental and analytical studies on buried un-plasticized poly vinyl chloride
5.	Polipati Ananyachandran, Mohamed Shafeeq S.M, Pavan Kumar M, V Vasugi	Performance evaluation on sustainable high early strength concrete
6.	Ajay Kumar T M, Aishwarya, Eshwar Prabhath K, V.Vasugi	A study on self comacting geopolymer concrete with an alkaline activator ratio
7.	Alisha Jais, Nimisha Jiji, Polipati Ananyachandran, V Vasugi	Influence of curing methods on high early strength concrete to achieve sustainability
8.	R.Rashmi Mano, Padma Priya R	Experimental investigation on High Performance Nano concrete
9.	Puneet Thakur, Dr. Helen Santhi	Seismic performance of Timber-steel hybrid multi- storey building
10.	Shanmugpriya.P, Padmapriya R.	Drift analysis on tall buildings
11.	L.S.Indra Sena Reddy, M.M.Vijayalakshmi	High performance concrete with GGBS and Robo Sand- A Review
12.	Preethy Mary. A, Eswari. S	Behavior of GFRP Laminated RC Beams using Finite Element Analysis
13.	M.Jothilingam, Pratheeba Paul	Durability performance of fly ash, ggbs, and redmud based geopolymer concrete for sustainable construction - a mitigation measure to reduce global warming
14.	R. Karthickraja, G. Divya	An experimental investigation on concrete by partial replacement of copper slag for fine aggregate and ceramic waste with coarse aggregate
15.	Preyadarshi.S	Study on Bio-Mineralization process on Microbial-cementation in Concrete
16.	K. Rangarajan, S. Kothandarama	Flexural Retrofitting Of RC Beams with Elastic Spring Support
17.	Y.Sombabu, M.M.Vijayalakshmi, L.S.Indra Sena Reddy	Retrofitting of rcc beams using glass fiber reinforced polymer (gfrp)

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SESSION 1 : SUSTAINABLE URBAN DEVELOPMENT – II SESSION CHAIR : Dr.Abdul Razak Co-Chair : Dr.Suresh Kuppusamy
Date : 25.01.2018 Time : 11.00 A.M – 12.30. P.M Venue : I Rapporteur : Ar.Shankar

S.No.	Participant Name	Title of Presentation
1.	N. Ramesh Babu	Building typologies for fire risk mitigation at urban scale –a case study of core area of Kumbakonam town
2.	Febin Md. H &Dr. Vijayalaxmi J	Sustainable cities - Masdar, as a prototype
3.	Kanika Bansal	Climate change and Urban development strategies in India
4.	D. Karthigeyan& Dr. SheebaChander	Multi modal integration - a case study of proposed Chennai central square
5.	Jerome Benhur K	Social isolation: a study on social sustainability in cities
6.	Ashwini Rathnavel	What makes a sustainable intentional community in southern India?
7.	C.Ezhil Maran &J.Safrin Rex Dulcie	Urban sustainability a neighborhood assessment on crime prevention
8.	Mohanapriya.R, &Dr.KumudhavalliSasidhar	The prospects and constraints in the development of temple town as a sustainable smart city - a case study of Kumbakonam
9.	Sona Alex	Are our cities sustainable? The triple challenge of development, quality of life and the environment-
10.	P.Jayashree	Human psychology on LVIA in urban parks
11.	Vasanthan R, Vijay David & Sampathkumar	Proposal of a new Island city near Mahabalipuram on Bay of Bengal

SESSION 2 : SUSTAINABLE URBAN DEVELOPMENT – III SESSION CHAIR : Dr.Mohammad Arif Kamal Co-Chair : Dr.N.Jothilakshmy
Date : 25.01.2018 Time : 11.00 A.M – 12.30. P.M Venue : II Rapporteur : Ar.Arulmalar

S.No.	Participant Name	Title of Presentation
1	J.Jeyaradha, &Dr.RaneeVedamuthu	Optimization of lighting in school classrooms using Dialux Software
2	Gayathri &Surya Rajkumar	Sustainable roofing material and its benefits in conventional construction
3	PreethaJacob	Post Occupancy Evaluation : A Sustainable Design Tool
4	LikhitaDevineni&AnushaAdireddy	Eco-Friendly by Design-The Responsibility of an Architect
5	Nivethitha.G	Sustainable Building Services Systems
6	Surya Rajkumar , Dr.ShanmugaPriya	Critical analysis on adaptive comfort models and is driving factors their relationship to school environment
7	Saurav Dixit	Key benefits of synchronizing sustainable construction and lean construction in Indian construction industry
8	PriyaSasidharan	Green and grey order – traditional sustainable moorings
9	ReshmiPanicker	Sustainable skyscrapers – a paradox or paradigm
10	AncelineJacob.T	Daylighting in office buildings in warm -humid tropical climate
11	K.Bharath	Effectiveness of biophilic design in health spaces

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SESSION 3 : GREEN TECHNOLOGY **SESSION CHAIR : Dr.N.K.Ambujam** **Co-Chair : Dr.Phani Madavi**
Date : 25.01.2018 **Time : 11.00 A.M – 12.30. P.M** **Venue : III** **Rapporteur : Ms.P.K.Raji**

S.No.	Participant Name	Title of Presentation
1.	Ahamed Fazeel Akram	Green building rating system
2.	Karan.R, Niyandha.S,Rajesh Khanna	Green Technology: an investigation on promoting green villages
3.	D.Mugundhan	Bridging green and brown foot prints – a sustainable challenge to envelope grey shade
4.	Nina Lazar, Chithra K	Green Building Rating Systems from the Perspective of Three Pillars of Sustainability through Building Lifecycle
5.	Selvendiran S G, Ebin Horrison S	A framework for evaluating the benefits of green building project using cost benefit analysis
6.	Andavan.S, Needhidasan.S, Elavenil.S	Implementing the concepts of green building by using eco-friendly materials for sustainable development – a study
7.	Anushruti, Mamatha.N	Smart & Sustainable materials: A step towards sustainability
8.	Ar.Vinushaa, Sukirtha, Surya Rajkumar	A study on centralized collaboration for sustainable development in AEC industry
9.	Sanghavi Venkata Varadan, Arulmalar Ramara	Exploring the Role of glass bottles in etching built forms and environments aesthetically – A thematic Study
10.	V.Shankar, S.Ebin Horrison	Role of precast in making mass housing a Sustainable Development

SESSION 4 : ENVIRONMENTAL SUSTAINABILITY - II **SESSION CHAIR : Dr. Sultan Ahmed Ismail** **Co-Chair : Dr. S.Nandhakumar**
Date : 25.01.2018 **Time : 11.00 A.M – 12.30. P.M** **Venue : IV** **Rapporteur : Ms.P.Vijayalakshmi**

S.No.	Participant Name	Title of Presentation
1	Alina C. Cherian, Gayathri S, Praba M	Utilization of crumb rubber from scrap tyres for flexible pavement
2	P. Indiramma, Ch. Sudharani	Improvement of expansive soil characteristics using fly ash and lime
3	Needhidasan Santhanam, Ramesh Baskar	Awareness about e-waste generation, disposal & its implications on environment and human health – a practical study
4	Asif Laskar, Praba M	Optimization of strength characteristics on utilization of waste plastics in bituminous pavement construction
5	K.KIRTHIKA, T.R.PRAVEEN KUMAR, ABIDA JUSTUS	Design and experimental investigation of polymerized bitumen roads using plastic waste
6	Packialakshmi S, Padmini T.K	Treating waste water using electrocoagulation approach
7	M.Aishwarya, J.Anudevi, M.Praba	Experimental study on the properties of pervious concrete
8	P Vijayalakshmi, Marykutty Abraham	Selection of Potential Reactive Materials for removal of Chromium in landfill leachate using Permeable Reactive Barriers
9	Abida Justus, K.Kirthika, T.R.Praveen Kumar	Use of recycled plastic waste as partial replacement for fine aggregate in concrete
10	M.Siva Chennakesava Rao, M.M.Vijaya Lakshmi	Green concrete using agro-industrial waste – a review

****NOTE: Some Presentations would be in the form of Poster and will be intimated to the concerned Author Shortly**