



Third International Conference on Innovative Technologies for Clean and Sustainable Development

19–21 February 2020

Homi Bhabha Academic Block,
National Institute of Technical Teachers Training & Research
Chandigarh, India

Organised by:
National Institute of Technical Teachers Training & Research, Chandigarh
and
Maharaja Agrasen University, Baddi

Programme Booklet

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Day 1: 19 February 2020

08:30-10:00 *Registration*

Session 1: Inauguration

Time	Agenda: Session 1: S. S. Bhatnagar Auditorium
10:00	Inaugural Session 3rd International Conference on Innovative Technologies for Clean and Sustainable Development

11:00 – 11:30 *Coffee Break*

Session 2: Poster session with Coffee

Time	Posters: Lobby of First Floor near Conference Hall
11:30	Evaluation and reduction of temperature stresses in concrete pavement by using Phase Changing Material <i>Mr. Prakash Somani / MNIT Jaipur</i>
	Modification and management of lignocellulosic waste as an ecofriendly Bio-sorbent for the applications of Heavy Metal ion sorption <i>Ms. Ekta Sharma / Maharaja Agrasen University Baddi</i>
	Investigation of Critical Factors Influencing Time Overrun in Highway Construction Projects <i>Mr. Varun kumar Sharma / PEC Chandigarh</i>
	A comparative study on the sustainability of public and private road transportation systems in an urban area: Current and future scenarios <i>Mr. Bishnu Kant Shukla / LUP Jalandhar</i>
	Strength and Rheological Properties of Self-Compacting Concrete Incorporating Marble and Granite Powder <i>Miss Meera / IIT Delhi</i>
	Development of self-cured fly ash based geopolymer concrete <i>Mr. Atul Garg / DCRUST, Murthal</i>

Session 3: Concurrent sessions

Time	Talk: Session 3A – Committee Room; Chaired by Prof. S. B. Singh & Co-Chaired by Dr. Subha Vishnudas	Time	Talk: Session 3B – Conference Hall; Chaired by Prof. A.R. Dar & Co- Chaired by Prof. S. K. Verma	Time	Talk: Session 3C – Golden Jubilee Room; Chaired by Dr. Ambika Behl and Co- Chaired by Dr. Ahmad Fayeq Ghowsi
11:30	Keynote: Engineered Cementitious Composite and its Applications <i>Prof. S. B. Singh / BITS Pilani</i>	11:30	Keynote: Implication of Conventional Design / Construction Practices and Structural Failures on Environmental Sustainability <i>Prof. A.R. Dar / NIT Srinagar</i>	11:30	Effect of Stiffeners on the Gusset-plates of Buckling Restrained Braced Frames: A Numerical Study <i>Dr. Ahmad Fayeq Ghowsi / IIT Delhi</i>
12:00	Re-interpreting and Adapting the Site Specific Vernacular Passive House Architectural Strategies for Reducing Building Energy Demand <i>Dr. Sulata Bhandari / PEC Chandigarh and Ms. Reya Kundu / CEPT University</i>	12:00	A Performance Analysis Study for Nano-enabled Cement Composites and Concrete <i>Prof. Mainak Ghosal / IEST Shibpur</i>	12:00	A study on the viability of waste generated from industries and demolition sites as masonry mortar <i>Mr. Sourav Kumar Das/ Manipal University Jaipur</i>
12:15	Hydraulic and Hydrologic analysis for Infrastructure project <i>Ms. Dhruvi Suryakant Bawaskar / Sardar Patel College of Engineering, Mumbai</i>	12:15	Structural Property Assessment of GFRP Reinforced Concrete Beams <i>Mr. Amol Singh Ramana / Poornima University</i>	12:15	Long term effect of corrosion inhibitor and associated cation type of chloride ions on chloride profile of concrete exposed to composite chloride-sulfate environment <i>Jyotish Kumar Das / IIT Guwahati</i>
12:30	Assessment of the potential of naturally available foaming agent for use in the production of foam concrete <i>Ms. Selija Khwairakpam / IIT Guwahati</i>	12:30	Corrosion characteristics of rebar induced in different types of fibre reinforced concrete <i>Mr. Ganesh Naidu Gopu / VIT Vellore</i>	12:30	Effect of GGBS and Chloride on Compressive strength and Corrosion Performance of Steel in Fly Ash-based Geopolymer Concrete <i>Mr. Jnyanendra Kumar Prusty / IIT Guwahati</i>
12:45	Use of Bacillus Subtilis bacterium to improve the strength of concrete <i>Ms. Shradha Jena / ITER, SOA</i>	12:45	Design Procedure for High Strength Anchor Bolts in Concrete Pedestal <i>Ms. Divya Khullar / Engineers India Limited</i>	12:45	Sustainability of Crushed Laterite Scraps as Fine Aggregate in Different Grades of Concrete <i>Ms. Rajapriya R / Anna University</i>

13:00 – 14:00 Lunch

Session 4: Concurrent sessions

Time	Talk: Session 4A – Committee Room; Chaired by Prof. S. B. Singh & Co-Chaired by Prof. S P Singh	Time	Talk: Session 4B – Conference Hall; Chaired by Chaired by Dr. M Mansoor Ahammed & Co- Chaired by Prof. A.R. Dar	Time	Talk: Session 4C – Golden Jubilee Room; Chaired by Prof. S. K. Singh & Co- Chaired by Dr. Amanpreet Kaur Sodhi
14:00	Keynote: Performance Evaluation of Recycled Aggregate Concrete under Flexural Fatigue Loading <i>Prof. S P Singh / NIT Jalandhar</i>	14:00	Strength, sorptivity and shrinkage characteristics of cow dung stabilized mud mortar <i>Ms. Lekshmi M S & Dr. Subha Vishnudas / CUSAT Kochi</i>	14:00	Water Pollution and it's Prevention through Development of Low Cost Wastewater Treatment System <i>Mr. Sagar Mukundrao Gawande / ICT - Mumbai</i>
		14:15	Reduction of annual energy consumption of Multifamily dwellings using BIM and Simulation Tools <i>Mr. Subbarao Yarramsetty / NIT Warangal</i>	14:15	Characterization of Ancient mortar for Sustainability of an 800 year old Heritage site in India <i>Mr. Degloorkar Nikhil Kumar / NIT Warangal</i>
14:30	Precious Recycling of Reclaimed Asphalt as Hot Mix Asphalt by Use of Rejuvenator <i>Prof. Pahirangan Sivapatham / University of Wuppertal, Germany</i>	14:30	Thermal properties of foamed concrete; a review <i>Mr. Chandrashekhar Dattatray Wagh / IIT Guwahati</i>	14:30	Water Quality Assessment of Natural lakes and its importance: an Overview <i>Ms. Prachi Vasistha / JUIT Solan</i>
14:45	Recent patterns and trends in sustainable concrete research in India: A five-year scientometric review <i>Mr. Arka Ghosh / Deakin University Australia</i>	14:45	Waste recycled PET as a binder in polymer mortar <i>Ms. Bhagyashri Vivekanand Sarde / SVNIT Surat</i>	14:45	Recent Progress on Heterostructures of Photocatalysts for Environmental Remediation <i>Ms. Ekta Sharma Maharaja Agrasen University</i>
15:00	Supplementary cementitious materials: A review on hydration behavior in cements <i>Mr. Anuj Parashar / IIT Delhi</i>	15:00	Sustainable Concrete Construction by Microorganism and Monitoring using EMI Technique: A Review <i>Mr. Krishna Kumar Maurya / MNIT Allahabad</i>	15:00	Influence of expanded glass aggregate size, aerogel and binding materials volume on the properties of lightweight concrete <i>Mr. Suman Kumar Adhikary / Kaunas University of Technology Lithuania</i>
15:15	A study on the uni-axial behavior of hybrid graded fiber reinforced concrete with glass and steel fibers <i>Mr. S R R Teja Prathipati / NIT Warangal</i>	15:15	Development of sustainable masonry blocks using industrial rejects and alkali activation <i>Mr. Nikhil Rathod / VNIT Nagpur</i>	15:15	Effects of the NanoSilica Addition on Cement Concrete- A Review <i>Mr. Gulzar Hussain Barbhuiya / AMU Aligarh</i>

15:30 – 16:00 Coffee Break

Session 5: Poster session with Coffee

Time	Posters: Lobby of First Floor near Conference Hall
15:30	Behavior of Bamboo Wall Panel Under Bullet Impact Load <i>Dr. Supratic Gupta / IIT Delhi</i>
	Effect of crystalline admixture, fly ash, and PVA fiber on self-healing efficiency of early-age cracks in concrete <i>Mohd Nasim / NIT Raipur</i>
	Utilization of Lignin as an Antioxidant in Asphalt Binder <i>Dr. Ambika Behl / CSIR-Central Road Research Institute Delhi</i>
	Importance of Moisture Correction in Fine Powder Materials for Concrete <i>Miss Meera / IIT Delhi</i>
	Improved Performance of Steel Fibre Reinforced Beam-Column Joint- An Experimental Study <i>Dr. Ahmad Fayeq Ghowsi / IIT Delhi</i>
	Carbon offsetting: an approach towards reduction of carbon footprint in micro environment <i>Ms. Asmita Rupal / NITTTR Chandigarh</i>

Session 6: Concurrent sessions

Time	Talk: Session 6A – Committee Room; Chaired by Prof. A.R. Dar & Co- Chaired by Dr. M Mansoor Ahammed	Time	Talk: Session 6B – Conference Hall; Chaired by Prof. S P Singh & Co- Chaired by Dr. Ambika Behl	Time	Talk: Session 6C – Golden Jubilee Room; Chaired by Dr. Subha Vishnudas & Co- Chaired by Prof. Dipendu Bhunia
16:00	Greywater Treatment Using Electrocoagulation <i>Dr. M Mansoor Ahammed / SVNIT Surat</i>	16:00	Experimental Investigation on Modification of Rheological Parameters of Bitumen by Using Waste Plastic Bottles <i>Dr. Sudheer Ponnada / MVGR College of Engineering (A)</i>	16:00	Experimental study on developing SCC using IS 10262: 2019 by utilizing C&D waste for sustainable construction <i>Prof. Ashwin M Joshi / RASTA - Center for Road Technology Bangalore</i>
16:15	Anaerobic Treatment of Spentwash for Recovery of Clean Energy <i>Ms. Misbah Bashir & Mr. Chander Mohan / IIT Mandi</i>	16:15	Laboratory study on the Impact of RAP Content in Foam Bitumen Mixes Mr. Oluwafemi Festus Fadamoro / CSIR- Central Road Research Institute Delhi	16:15	Sustainable Construction Practices: A perspective view of Indian construction industry professionals <i>Mr. Mag Raj Gehlot / MNIT Jaipur</i>
16:30	Heavy Metal Precipitation from Sulfide Produced from Anaerobic Sulfidogenic Reactor <i>Ms. Shivani Tyagi & Mr. Wasil Malik / IIT Mandi</i>	16:30	Passive solar housing and traditional building construction in trans-himalayan cold desert of ladakh <i>Ms. Hasina Bano / NITTTR Chandigarh</i>	16:30	Influence of Silpozz on Mechanical Properties of Concrete containing Crushed Seashell <i>Prof. Kishor Chandra Panda / Government College of Engineering, Kalahandi</i>

16:45	Sorptivity characteristics of high strength self-consolidating concrete produced by waste marble powder, fly ash and micro silica <i>Mr. Rakesh Choudhary / MNIT Jaipur</i>	16:45	Fiber reinforced geopolymer treated soft clay - an innovative and sustainable alternative for soil stabilization <i>Ms. Bhavita Chowdary V / NIT Warangal</i>	16:45	Utilization of Industrial Waste in Concrete Mix- A Review <i>Mr. Rajwinder Singh / NIT Jalandhar</i>
17:00	Mechanical Properties of Hybrid Geopolymer Concrete Prepared Using Rice Husk Ash, Fly Ash, and GGBS with Coconut Fiber <i>Ms. Mahapara Abbass Wani / DCRUST Murthal</i>	17:00	Performance Evaluation of Reclaimed Asphalt Pavement (RAP) as Fine Aggregate in Concrete <i>Mr. Yeswanth Paluri / NIT Warangal</i>	17:00	Sustainable Use of Fly Ash and Waste Marble Slurry Powder in Concrete <i>Mr. Vishal Singhal / MNIT Jaipur</i>
17:15	Impact of accelerated carbonation on the properties of self-compacting concrete containing sandstone slurry <i>Ms. Prarthita Basu / MNIT Jaipur</i>	17:15	Mix Suitable for Concrete 3D Printing: A Review <i>Prof. Mohd Ataulah Khan / Mahindra Ecole Centrale Hyderabad</i>	17:15	Valorization of waste rubber tyre fiber in development of functionally graded concrete <i>Mr. Sumit Mukund Choudhary / MNIT Jaipur</i>

Session 7: Conference dinner

Time	Agenda: Session 7: Venue will be notified
19:30	Gall Dinner Session 3rd International Conference on Innovative Technologies for Clean and Sustainable Development

Day 2: 20 February 2020

Session 8: Concurrent sessions

Time	Talk: Session 8A – Committee Room; Chaired by Prof. S. B. Singh & Co- Chaired by Prof. S K Singh	Time	Talk: Session 8B – Conference Hall; Chaired by Prof. S. K. Verma & Co- Chaired by Dr. M Mansoor Ahammed	Time	Talk: Session 8C – Golden Jubilee Room; Chaired by Dr. Subha Vishnudas & Co- Chaired by Prof. Dipendu Bhunia	Time	Talk: Session 8D – Board Room; Chaired by Dr. Ahmad Fayeque Ghowsi & Co- Chaired by Dr. Sudheer Ponnada
09:00	Keynote: Utilization of coal ash: Indian scenario <i>Prof. S K Singh / PEC Chandigarh</i>	09:00	Keynote: Innovative utilization of stone dust and silica fume in sustainable concrete <i>Prof. S K Verma / PEC Chandigarh</i>	09:00	A Review on Sustainable Utilization of Industrial Wastes in Radiation Shielding Concrete <i>Prof. Dipendu Bhunia / BITS Pilani</i>	09:00	Cold-formed Steel Concrete Composite Slab: Structural Performance Evaluation through Experimental Study <i>M. Adil Dar / IIT Delhi</i>
10:00	Unpaved test sections reinforced with geotextile and geogrid <i>Ms. Meenakshi Singh / Delhi Technological University Delhi</i>	10:00	Microalgal bio-refinery approach for utilization of <i>Tetrademus obliquus</i> biomass for biodiesel production <i>Ms. Neha Singh / IIT Guwahati</i>	10:00	Evaluating the effect of speed variation on vehicular emission using an integrated modelling approach <i>Ms. Archana Chawla / IIT Delhi</i>	10:00	Investigation of the relationship between splitting tensile strength and compressive strength for prediction of splitting tensile strength of fly ash concrete <i>Mr. Lomesh S Mahajan / Dr. BATU, Lonere</i>
10:15	Comparative study of soil stabilization with glass powder, plastic and e-waste <i>Mr. Gaurav Singh / Rajkiya Engineering College Ambedkar Nagar</i>	10:15	Masonry Chips Aggregate as Internal Curing Medium: A Cost Effective Alternative to Counteract Adverse Curing Conditions <i>Mr. Bayezid Baten / BUET Bangladesh</i>	10:15	Use of Char Derived from Waste Plastic Pyrolysis for Asphalt Binder Modification <i>Mr. Abhinay Kumar / IIT Guwahati</i>	10:15	Effect on early age shrinkage and electrical resistivity of ternary blended concrete containing blast furnace slag and steel slag <i>Ms. Richa Palod / NIT Raipur</i>

10:30	Stabilization of Colluvial Soil Using Rice Husk Ash and Micro Silica Powder <i>Mr. Sachin Verma / LPU Jalandhar</i>	10:30	Enhancement of Sub-Grade Soil Strength with Additives: Cement & Molasses <i>Mr. Ankit Bansal / PEC Chandigarh</i>	10:30	Homogeneity and Trend analysis for metro logical stations in Bhima river basin in Maharashtra <i>Ms. Shweta Anupam Patil / Sardar Patel College of Engineering Mumbai</i>	10:30	Study on design and development of NZEB <i>Prof. Sanjay Sharma / NITTTR Chandigarh</i>
10:45	Soil Stabilization of weak subgrade soil using waste paper sludge ash <i>Mr. Shivam Verma / Rajkiya Engineering College Ambedkar Nagar</i>	10:45	Strength and Resilient Behavior of Lime Modified Pond Ash as Pavement Layer <i>Mr. Mogili Sudhakar / NIT Warangal</i>	10:45	Effective Sand Solutions-quarry waste and waste plastic for improving the elasticity properties as fine aggregate in concrete <i>Dr. Boskey Vishal Bahoria / RG CER Nagpur</i>	10:45	Effects of Internal Curing on Self-Compacting Concrete- A Review <i>Mr. Kuruva Venkateswarlu / NIT Raipur</i>

11:00 – 11:30 Coffee Break

Session 9: Poster session with Coffee

Time	Posters: Lobby of First Floor near Conference Hall
11:30	Influence of Steel Fibers on Permeability of Concrete <i>Prof. Yuvraj Singh / GNE Ludhiana</i>
	Performance of thin joint masonry using alternate mortars for sustainable construction <i>Prof. Ashwin M Joshi / RASTA - Center for Road Technology Bangalore</i>
	Project management in sustainable infrastructure projects: A 10-year systematic literature review <i>Mr. Arka Ghosh / Deakin University Australia</i>
	Effects of alccofine and curing conditions on properties of low calcium fly ash-based geopolymer concrete <i>Dr. Parveen / DCRUST Murthal</i>
	Quantification of reactive content of Indian fly ashes <i>Mr. Anuj Parashar / ITT Delhi</i>

Session 10: Concurrent sessions

Time	Talk: Session 10A – Committee Room; Chaired by Prof. S. K. Singh & Co-Chaired by Dr. Ambika Behl	Time	Talk: Session 10B – Conference Hall; Chaired by Dr. M Mansoor Ahammed & Co-Chaired by Dr. Ahmad Fayeq Ghowsi	Time	Talk: Session 10C – Golden Jubilee Room; Chaired by Dr. Sudheer Ponnada & Co-Chaired by Dr. Amanpreet Kaur Sodhi	Time	Talk: Session 10D – Board Room; Chaired by Prof. S. K. Verma & Co-Chaired by Prof. Dipendu Bhunia
11:30	Waste Plastic Roads - Case Study <i>Dr. Ambika Behl / CSIR-Central Road Research Institute Delhi</i>	11:30	Development of innovative green SCC with partial replacement of fine and coarse aggregate by slag with emphasis on sustainability <i>Dr. Ajay N / RASTA - Center for Road Technology Bangalore</i>	11:30	A study on removal of cutting oil from wastewater by using agricultural wastes <i>Dr. Amanpreet Kaur Sodhi / GNE Ludhiana</i>	11:30	Workability and strength properties of fly ash and slag based Geopolymer Concrete using Medium Alkaline and Neutral grade water-glass <i>Mr. Vikas Gugulothu / NIT Warangal</i>
11:45	Soil Stabilization with the help of PET bottles scrap <i>Mr. Abhishek Pratap Singh / Rajkiya Engineering College Ambedkar Nagar</i>	11:45	Ancient Indian Recipe for Sustainable and Environmentally Friendly Decorative Earthen Plaster of Karla Caves, India <i>Mr. Bhushan Dighe / National Museum Institute Delhi</i>	11:45	A systematic assessment for the determination of Sugarcane Bagasse Ash variation potential throughout the harvesting season <i>Mr. Amol Kamalakar Mali / IIT Bombay</i>	11:45	Investigation of Critical Factors Influencing Cost Overrun in Highway Construction Projects <i>Mr. Varun Kumar Sharma / PEC Chandigarh</i>
12:00	Pollution status and water quality assessment in pre-monsoon season: a case study of rural villages in Allahabad district, Uttar Pradesh, India <i>Mr. Bishnu Kant Shukla / LPU Jalandhar</i>	12:00	Examine the effect of setting time and compressive strength of cement mortar paste using Iminodiacetic acid <i>Mr. Prashant Sharma / GLA University Mathura</i>	12:00	Autonomous healing in concrete by crystalline admixture: A review <i>Mohd Nasim / NIT Raipur</i>	12:00	Use of waste cooking oil as a green admixture <i>Mr. Pankaj Kumar & Ms. Ishita Ratra / Maharaja Agrasen University</i>

12:15	Use of Kota Stone Waste from Stone Industry to Produce Vibro-Compacted Hollow Concrete Blocks <i>Mr. Rohit / MNIT Jaipur</i>	12:15	Design of new green building using IGBC rating system <i>Mr. Ashish Suresh Srivastava / AIKTC Navi Mumbai</i>	12:15	Employment of Crumb Rubber Tyre in Concrete Masonry Bricks <i>Mr. Ankush Thakur / NIT Jalandhar</i>	12:15	Green concrete: Using quarry waste of sandstone as fine aggregate with high levels of microfines <i>Ms. Kusum Rathore / MNIT Jaipur</i>
12:30	Physical and microstructural properties of Construction and Demolition Waste based masonry units <i>Mr. Vivian Lawrence Sequeira / RASTA - Center for Road Technology Bangalore</i>	12:30	Influence of fly ash content on strength and microstructure of fly ash based geopolymer concrete subjected to chloride-rich environment <i>Mr. Sathishraj Mani / IIT Guwahati</i>	12:30	Quantification of voids in concrete using surface image analysis for durability assessment <i>Mr. Haritya Shah / BITS Pilani Hyderabad Campus</i>	12:30	Analytical test methods for Geopolymer Characterisation: A state-of-the-art Review <i>Mr. Prashant Kumar Gupta / IIT Delhi</i>
12:45	Image-Based Deterioration Assessment of Concrete <i>Mr. V.Guru Prathap Reddy / NIT Warangal</i>	12:45	Performance evaluation of fresh and hardened geopolymer binder <i>Mr. Dhruv Sood / Ryerson University Canada</i>	12:45	Mode- II characterization of the interfacial transition zone of cement concrete and granite rock using push-out test <i>Mr. Ravi Kumar Sandal / IIT Mandi</i>	12:45	Hardened properties of binary cement concrete with recycled PET bottle fiber: An experimental study <i>Ms. Lisa Mary Thomas / KCT Coimbatore</i>

13:00 – 14:00 Lunch

Session 11: Concurrent sessions

Time	Talk: Session 11A – Committee Room; Chaired by Prof. S. B. Singh & Co-Chaired by Prof. Sanjay Sharma	Time	Talk: Session 11B – Conference Hall; Chaired by Prof. Dipendu Bhunia & Prof. Himmi Gupta	Time	Talk: Session 11C – Golden Jubilee Room; Chaired by Dr. Ahmad Fayeque Ghowsi & Co-chaired by Dr. Amanpreet Kaur Sodhi	Time	Talk: Session 11D – Board Room; Chaired by Dr. Subha Vishnudas & Co-Chaired by Dr. Sudheer Ponnada
14:00	Utilisation of ground bottom ash in concrete <i>Dr. Supratic Gupta / IIT Delhi</i>	14:00	Strength and Durability Performance of Recycled aggregate based Geo-Polymer concrete <i>Dr. Kannam Praveen / CBIT Hyderabad and Mr. Banoth Anand Sagar Rathod / CBIT Hyderabad</i>	14:00	Energy Pattern Comparison of Mesophilic and Thermophilic Condition Upflow Anaerobic Sludge Blanket reactor <i>Dr. Amol Balasaheb Saner / MCOERC Nashik</i>	14:00	Beneficial reuse of crushed mortar powders as partial cement substitute material: Their effects on hydration behavior and property development in Portland cement mortars <i>Ms. Hiwot Tsegaye Wolde / IIT Kanpur</i>
14:15	The potential use of brick fine aggregate as an alternative to natural fine aggregate in cement-based materials: impact on mechanical properties <i>M. Munir Hossain Patoary / Univ. of Asia Pacific Bangladesh</i>	14:15	Corrosion protection of steel bars in fly ash mixed cement mortars using different dosages and types of nanoparticles <i>Mr. Menaka Gayan Vitharana / Monash University Malaysia</i>	14:15	Importance of 'DAF' in Evaluating Structural Adequacy of Gravity-load Designed RC Buildings <i>Mr. Praveen Oggu / NIT Warangal</i>	14:15	A methodology to select an efficient protective treatment for brick structures <i>Ms. Swathy Manohar / IIT Madras</i>
14:30	Decoding 'Fresh Indoor Air': Exploring technologies and design interventions to achieve 'a fresh breath' in urban indoor spaces <i>Mr. Raman Vig / Bioenergetic Architecture - Design Consultant</i>	14:30	Self-Compacting Concrete – Modified Mix Design using the Rational Method <i>Mr. Peerzada Danish / VIT Vellore</i>	14:30	Sustainable solution for lake water purification in rural & urban areas <i>Mr. Anant Patel / SVNIT Surat</i>	14:30	Utilization of stone dust as an effective alternative for sand replacement in concrete <i>Ms. Pooja Jha / MNNIT Allahabad</i>

14:45	Assessment of modulus by using Falling Weight Deflectometer and Cores for stabilized layers <i>Mr. Gaurav Singh / Faculty of Technology and Engineering Vadodara</i>	14:45	An overview on utilization of stone waste in construction industry <i>Mr. Maninder Singh / NIT Kurukshetra</i>	14:45	Understanding the properties of cement-mortar mixtures using Electrical Impedance Spectroscopy (EIS) <i>Mr. Arvind Vishavkarma / IIT Kanpur</i>	14:45	Embodied Energy and Cost of Load Bearing Masonry with Alternative Binders and Units-Case Study <i>Ms. Jitha P T / BMS College of Engineering Bengaluru</i>
15:00	A Review of Different Bacteria Carriers Used in Self-Healing Mechanism <i>Mr. Prabhpreet Singh / GNE Ludhiana</i>	15:00	Utilization of waste marble powder for the production of limestone calcined clay cement (LC3) <i>Mr. Sachin Madhavrao Gunjal / SVNIT Surat</i>	15:00	Effect of recycled aggregates on fresh and hardened properties of self compacting concrete <i>Mr. Paramveer Singh / Dr. NIT Jalandhar</i>	15:00	Treatment of nutrient laden wastewater using simultaneous nitrification and denitrification (SND) <i>Ms. Susan N James / IIT Delhi</i>
15:15	Durability of alkali activated concrete – A Review <i>Mr. Atul Garg / DCRUST, Murthal</i>	15:15	Utilization of Coal Fly ash and Ultra fine additives in producing UHPC: Influence on Early strength, Flexural parameters and Microstructure <i>Mr. Shamanth Gowda T / BMS College of Engineering, Bengaluru</i>	15:15	cement replacement by ground granulated blast furnace slag: A review <i>Mr. Faisal Hussain Ganie / GNE Ludhiana</i>	15:15	Applications of Fiber Reinforced Polymer Laminates in Strengthening of Structures <i>Prof. Yuvraj Singh / GNE Ludhiana</i>

15:30 – 16:00 Coffee Break

Session 12: Poster session with Coffee

Time	Posters: Lobby of First Floor near Conference Hall
15:30	Recycling of Automotive Rubber Waste as an Asphalt Binder Modifier <i>Mr. Abhinay Kumar / IIT Guwahati</i>
	Reuse of waste iron powder as partial replacement for sand and cement in mortar <i>M. Munir Hossain Patoary / University of Asia Pacific Bangladesh</i>
	Effects of Ultra Fine Slag as Mineral Admixture on the Durability Properties of Rice Husk Ash Based Geopolymer Concrete <i>Dr. Parveen / DCRUST Murthal</i>
	Effects of Waste Marble Powder and Ground Granulated Blast Furnace Slag on the Properties of Conventional Concrete <i>Kishor Chandra Panda / Government College of Engineering Kalahandi</i>
	Analyzing the effect of Oleic Acid as an admixture on cement mortar paste <i>Mr. Prashant Sharma / GLA University Mathura</i>

Session 13: Concurrent sessions

Time	Talk: Session 13A – Committee Room; Chaired by Dr. Amanpreet Kaur Sodhi & Co-Chaired by Dr. Ambika Behl	Time	Talk: Session 13B – Conference Hall; Chaired by Dr. Subha Vishnudas	Time	Talk: Session 13C – Golden Jubilee Room; Chaired by Dr. Ahmad Fayeque Ghowsi	Time	Talk: Session 13D – Board Room; Chaired by Prof. S. K. Verma & Co-Chaired by Dr. Sudheer Ponnada
16:00	Characterization and Optimization of Polyurethane Based Bituminous Waterproofing Membrane <i>Ms. Asmita Rupal / NITTR Chandigarh</i>	16:00	Effect of addition of polypropylene fibre in the physico-mechanical properties of fly ash-blended geopolymer composite <i>Mr. Subhaditya Mitra / Jadavpur University</i>	16:00	Investigating the Hydrological Performance of Green Roofs Using SWMM <i>Prof. Satish Ganesh Taji / SRES's Sanjivani College of Engineering Kopergaon</i>	16:00	Influence of masonry infills on seismic performance of RC framed buildings <i>Prof. Surender Kumar Verma / PEC Chandigarh</i>

16:15	Influence of the packing density of fine particles in ternary, quaternary and quinary blends on High Performance Concrete <i>Mr. Bhawani Singh / JUIT Solan</i>	16:15	Corrosion rate of steel-embedded in carbonated cementitious system <i>Mr. Sundar Rathnarajan / IIT Madras</i>	16:15	Behaviour of RC Beam-Column Joint subjected to Opening Moments: Test & Numerical Validation <i>M. Adil Dar / IIT Delhi</i>	16:15	Encapsulated Self-Healing Concrete: A critical review <i>Prof. Maulik Jayendrabhai Mistry / Government Engineering College Bhuj</i>
16:30	Review on Ferro-Geopolymer Composite Confinement <i>Mr. Amol Venunath Ghogare / SVNIT Surat</i>	16:30	Structural Performance of Timber-Framed Joints for Sustainable Civil Engineering Construction <i>Mr. S.A. Aejaz / NIT Srinagar</i>	16:30	Development of a Strength Model for Foam Concrete Based on Water – Cement Ratio <i>Miss Meera / IIT Delhi</i>	16:30	Cost and Feasibility Analysis of Chromium Removal from Water using Agro and Horticultural Wastes as Adsorbents <i>Prof. Pushpendra Kumar Sharma / AMU Aligarh; LPU Jalandhar</i>
16:45	Influence of Bacillus megaterium on crack healing and mechanical properties of concrete <i>Mr. Rishab Attri / JUIT Solan</i>		Role of FRP in Developing Sustainable Infrastructure-A Review <i>Mr. Gurpreet Singh / NIT Kurukshetra</i>	16:45	Experimental Investigation of Rheological Properties of Recycled Aggregate Concrete <i>Prof. B. Suguna Rao / MSRIT Bengaluru</i>		Impact of New Development on Drainage System and Design of Suitable LID Structures <i>Mr. Subhanshu Dadwal / NITTTR Chandigarh</i>

Session 14: Valedictory

Time	Session 14: S. S. Bhatnagar Auditorium
16:30	Valedictory Session 3rd International Conference on Innovative Technologies for Clean and Sustainable Development

Day 3: 21 February 2020

9:00 Visit to Chandigarh City