

icRS SPT 2021

2021 International Conference on Resource Sustainability – Sustainable Pavement Technologies

May 26-27, 2021

Indian Institute of Technology
Tirupati, India

www.icrsconf.com/icrf_spt2020.html



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icRS SPT 2021 Program (IST: Indian Standard Time UTC + 5:30)

IST*	Day 1: Wednesday, 26 May 2021		
15:00-15:05	Greetings	Dr. Krishna Prapoorna Biligiri, Conference Chair	
15:05-15:15	Conference Opening	Dr. K. N. Satyanarayana, Director, IIT Tirupati, India	
15:15-15:20	Introduction of the icRS SPT 2021	Dr. Ming Xu, Conference Chair	
15:20-15:50	Keynote Speech – 1	Dr. Jorge Sousa, President, Consulpav International, Portugal Moderator: Dr. Herve Di Benedetto, University of Lyon, France	
15:50-16:00	Break		
	Parallel Sessions		
16:00-17:00	Session 1: Resources Conservation and Recyclability - 1 Chair: Dr. Roz-Ud-Din Nassar, AURAK Assistant: Mr. Vinay H. Nanjgowda, IITT	Session 2: Sustainability – 1 Chair: Dr. Gourab Saha, NIT Rourkela Assistant: Mr. Avishreshth Singh, IITT	Session 3: Materials, Design, and Maintenance – 1 Chair: Dr. Nizamuddin, RMIT Assistant: Mr. Chaitanya Gubbala, IITT
	Paper ID: 180 Field and laboratory investigation of lean rubberized mixtures designed for arid climate <i>Lanotte, Michele</i>	Paper ID: 183 Economic input-output LCA of engineered cementitious composite pavements <i>Pranav, Shreyas</i>	Paper ID: 184 Pilot study of balanced mix design for asphalt mixtures in Taiwan <i>Su, Yu-Min</i>
	Paper ID: 168 Use of waste glass concrete for construction of heated driveway <i>Nassar, Roz-Ud-Din</i>	Paper ID: 159 Performance monitoring of pervious concrete pavement systems <i>Singh, Avishreshth</i>	Paper ID: 163 Flexural fatigue behaviour of uncracked steel fibre reinforced concrete: a comparative study <i>Ajeesh K</i>
	Paper ID: 176 Assessing performance of road pavements base layers by using Reclaimed Asphalt Pavement and Jet Grouting Waste <i>Russo, Francesca</i>	Paper ID: 181 Life Cycle Assessment of natural zeolite-based warm mix asphalt and reclaimed asphalt pavement <i>Cárdenas-R, Juan Pablo</i>	Paper ID: 189 Study of asphalt concrete applied on field: Permanent Deformation <i>Menegusso Pires, Diego</i>
	Paper ID: 156 The engineering properties of OPC concrete containing reclaimed asphalt pavement <i>Su, Yu-Min</i>	Paper ID: 188 Tracing energy saving and emission reduction in China's transport sector <i>Hao, Rongjie</i>	Paper ID: 165 Investigating damage evolution in flexible pavement using falling weight deflectometer <i>Varma, Sudhir</i>
17:00-17:05	Break		
	Parallel Sessions		
17:05-17:50	Session 4: Resources Conservation and Recyclability - 2 Chair: Dr. Salvatore A. Biancardo, UNINA Assistant: Mr. Vinay H. Nanjgowda, IITT	Session 5: Sustainability – 2 Chair: Dr. Ana J. del B. Carrion, UGR Assistant: Mr. Avishreshth Singh, IITT	Session 6: Materials, Design, and Maintenance – 3 Chair: Dr. Cédric Sauzéat, ENTPE Assistant: Ms. Gauri R. Mahajan, IITT
	Paper ID: 174 Effect of plastic waste as filler on bituminous mastics performance for road pavement system <i>Veropalumbo, Rosa</i>	Paper ID: 173 Combining reclaimed asphalt and non-petroleum-based binders for the design of sustainable asphalt mixtures <i>Jimenez del Barco, Carrion</i>	Paper ID: 194 Complex modulus and complex Poisson's ratio of rubber and bituminous mixtures with rubber aggregates <i>Mahmoudi, Yasmina</i>
	Paper ID: 162 Laboratory investigation of usability of dust obtained from continuous type asphalt plant water-based-dust-extractor in hot mix asphalt <i>Varma, Sudhir</i>	Paper ID: 175 Computing environmental benefits of road asphalt pavements made up using waste through Life Cycle Assessment <i>Oreto, Cristina</i>	Paper ID: 185 The pilot study of skid resistance in plant-mixed asphalt mixtures with various film thickness of moisture <i>Su, Yu-Min</i>
	Paper ID: 193 Development of a balanced mix design for asphalt concrete mixtures containing high RAP content at project specific level-a case study <i>Jichkar, Prathmesh Deepak</i>	Paper ID: 127 Performance study of porous asphalt with different fiber additives <i>Pasupunuri, Sampath Kumar</i>	Paper ID: 150 Algorithm development for detection and measurement of pavement distresses using image processing <i>Jukte, Nishigandha</i>
17:50-18:00	Break		
18:00-18:30	Keynote Speech – 2	Shri. Nitin Gadkari, Honorable Minister of Road Transport and Highways, Government of India Moderator: Dr. Krishna Prapoorna Biligiri, IIT Tirupati, India	
18:30-18:35	Break		
18:35-19:05	Keynote Speech - 3	Dr. Kamil E. Kaloush, Professor, Arizona State University, USA Moderator: Dr. Michele Lanotte, Khalifa University, UAE	

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IST*	Day 2: Thursday, 27 May 2021	
15:00-15:30	Keynote Speech - 4	Dr. James W. Maina , Professor, University of Pretoria, South Africa Moderator: Dr. Sudhir Varma, IIT Patna, India
15:30-15:35	Break	
	Parallel Sessions	
15:35-16:35	Session 7: Materials, Design, Conservation and Recyclability - 3 Chair: Dr. Anush K. Chandrappa, IIT Bhubaneswar Assistant: Mr. Vinay H. Nanjagowda, IITT	Session 8: Sustainability & Infrastructure Asset Management – 3 Chair: Dr. Yu-min Su, NKUST Assistant: Mr. Chaitanya Gubbala, IITT
	Paper ID: 191 Impact-Absorbing Pavements made with cold and warm mix asphalt binders and recycled rubber: a preliminary laboratory study <i>Makoundou, Christina</i>	Paper ID: 186 The evaluation of pavement temperature profile in conjunction with a real-time weather station <i>Su, Yu-Min</i>
	Paper ID: 192 Modeling the economic and environmental lifecycle performance of recycled asphalt wearing courses in Europe <i>Presti, Davide Lo</i>	Paper ID: 177 A broad-based approach for evaluation of mechanical response and environmental impacts of Sustainable asphalt Pavement solutions manufactured using recycled materials <i>Viscione, Nunzio</i>
	Paper ID: 142 Mechanical performance evaluation of reacted and activated rubber modified mixtures containing warm mix additives <i>Boudnani, Zeine Elabidine</i>	Paper ID: 147 Framework for multi-parametric approach for pavement delineation: A novel technique for prioritization of pavements for maintenance <i>Peraka, Naga Siva Pavani</i>
	Paper ID: 157 Rheological and mechanical properties of nano-alumina modified asphalt binders and mixtures <i>Kumar, Abhinav</i>	Paper ID: 148 Sustainable practices of soil stabilization with nanotechnology additives <i>Saluja, Vishal</i>
16:35-16:40	Break	
16:40-17:10	Keynote Speech – 5	Dr. A. Veeraragavan , Professor, Indian Institute of Technology Madras, India Moderator: Dr. Veena Venudharan, IIT Palakkad, India
17:10-17:15	Break	
	Parallel Sessions	
17:15-18:30	Session 9: Materials, Design, Conservation and Recyclability - 4 Chair: Dr. Juan Pablo Cárdenas-R, UFRONTERA Assistant: Mr. Avishreshth Singh, IITT	Session 10: Sustainability & Infra Asset Management – 4 Chair: Dr. Ambika Kuity, NIT Silchar Assistant: Ms. Gauri R. Mahajan, IITT
	Paper ID: 195 Laboratory evaluation of strength and durability characteristics of cement-treated base layer using cement and chemical stabilizer <i>Chhabra, Rishi Singh</i>	Paper ID: 111 Sustainability assessment of microsurfacing with incorporation of fly ash <i>Bhargava, Nishant</i>
	Paper ID: 190 Structural and hydrological evaluation of pervious concrete incorporating recycled glass and carbon composites <i>Charak, Akhil</i>	Paper ID: 118 A brief review on application of machine learning techniques to detect distresses in flexible pavement <i>Kuity, Ambika</i>
	Paper ID: 139 Utilization of recycled polyethylene for asphalt roads: Australian case study <i>Nizamuddin, Sabzoi</i>	Paper ID: 125 Behavior of temperature profile in rigid pavements containing reclaimed asphalt pavement aggregates <i>Abraham, Sarah Mariam</i>
	Paper ID: 114 A comparative study of geopolymer based on volcanic ash from different areas <i>Zhou, Sigi</i>	Paper ID: 128 Pavement surface distress evaluation using geospatial tools and image processing techniques <i>Sharma, Madhavendra</i>
	Paper ID: 182 Effect of wax-based additives on the rheological properties of asphalt binders modified with polyethylene <i>Lanotte, Michele</i>	Paper ID: 161 Development of an experimental relationship between tire-pavement interaction noise and vibration response of a two-wheeler <i>Sundar, Sriram</i>
18:30-18:35	Break	
18:35-19:05	Keynote Speech - 6	Dr. Silvia Caro Spinel , Professor, Universidad de los Andes, Colombia Moderator: Dr. Davide Lo Presti, University of Palermo, Italy
19:05	Adjourn Conference Chairs	

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