



KSCSTE - National Transportation Planning and Research Centre (NATPAC), an institution of Kerala State Council for Science, Technology and Environment (KSCSTE) is a premier R & D institution in the country which works on multi – modal system of transportation covering road, rail, water, air etc.

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## TransPedia Research Talk #30

### Cooling the Concrete Jungle: Impact of Pavements on Near-Surface Air Temperature and Mitigation Methods

#### ABOUT THE TALK SERIES

NATPAC has been conducting a series of technical talks 'TransTech Talk Series', since February 2023, where industry experts and eminent researchers come together to discuss the latest advancements, challenges, and innovations in the field of transportation.

**TransPedia Research Talk Series** is yet another unprecedented and distinctive endeavor from NATPAC, envisioned to promote research for shared benefits, by disseminating knowledge on diverse topics from cutting-edge technologies to sustainable solutions. Desirably this also brings out a platform for young researchers across the globe to connect and interact to better shape the future of research and development in transportation.

#### ABOUT THE TALK #30

Pavements cover a significant fraction of urban land area, making their thermal behavior critical to city-scale temperature regulation. Pavements store large amounts of heat, significantly influencing near-surface air temperature and intensifying the urban heat island effect. This talk explores the role of pavement materials in urban thermal environments and explains the underlying thermodynamics of heat absorption and release. It also highlights cool pavement technologies and other mitigation strategies aimed at reducing pavement and air temperatures.

#### Attendees

Transportation Professionals, Engineers, Urban Planners, Researchers, Industry Experts, Policymakers, Students, and anyone enthusiastic about the future of transportation.

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#### Dr. Anupam B. R.

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Dr. Anupam completed his Ph.D titled "Performance Assessment of Cool Pavements Embedded with Phase Change Materials" from IIT Bhubaneswar in 2023 under the guidance of Dr. Umesh Chandra Sahoo and Dr. Prasenjit Rath. His research interests include Cool Pavements, Roller Compacted Concrete Pavements, Quiet Pavements, Geopolymer Concrete Pavements and Use of Waste Materials in Pavements.

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Don't miss out on this opportunity to delve into the realm of transportation innovation. Join us for insightful conversations, connect with fellow industry professionals, and be part of shaping the future of transportation.