

POTHOLE PREVENTION AND TREATMENT: SCIENCE, TECHNOLOGY AND PRACTICE
1-Day Workshop, September 11, 2018
Center for infrastructure, Sustainable Transportation and Urban Planning (CiSTUP)
and Civil Engineering Department
Indian Institute of Science (IISc), Bangalore



The occurrence of potholes is a major problem for bituminous pavements in almost all parts of India. Potholes not only slow down traffic and reduce road capacity, but also cause a major safety hazard. More than 3,000 people were killed in India in 2017 due to pothole related accidents. Unless potholes are prevented and treated effectively, the vast and growing road network in India will become a deathtrap for the travelling public. Therefore, there is a critical need to understand the various causes of potholes and develop scientific methods for their prevention and treatment. Furthermore, the developed methods should be implemented into practice through the use of appropriate materials, design, construction methods and pavement preservation/management practices.

The objective of this one-day workshop is to present and discuss the science and technology of pothole prevention and treatment. This workshop will bring together eminent experts from the academia and stakeholders, including government agencies and the industry, to share their knowledge and experience. Presenters will share their good experiences through successful case histories, which can help others to adopt good practices. The workshop will help participants to understand the causes of pothole formation, learn about available materials and methods to prevent and treat them, develop appropriate pavement preservation plans, and identify scope of research in modeling, and developing innovative materials and technology.

Agenda

- 8:30 am – 9 am: Registration
 - 9 am: Welcome address
 - 9:15 am: Public sector agency perspective: Mr. Somashekar, Chief Engineer, BBMP
 - 9:45 am: Lessons from the Public sector agency: Mr. Prahallad, Chief Engineer, BBMP
 - 10:15 am: Coffee/Tea
 - 10:30 am: Experience of public sector agency: Public sector agency
 - 11:00 am: Pothole generation and its propagation: Professor Animesh Das, IIT Kanpur
 - 11:45 am: Prevention of pothole through better construction practices: Professor Anjaneyappa, R. V. College
 - 12:30: Innovative methods to prevent cracking and formation of potholes: Professor Sivakumar Babu, IISc, Bangalore
 - 1:00: Lunch
 - 2:00 pm: Proven materials and methods for effective pothole treatment: Professor P. S. Kandhal, Associate Director Emeritus, National Center for Asphalt Technology (NCAT), Auburn University
 - 2:45 pm: Demonstration of pothole patching with IRC specified material on IISc campus
 - 3:45 pm: Tea/Coffee
 - 4:00 pm: Scope of research and development: What is needed and the way forward: Panel Discussion moderated by Prof. Rajib Mallick, Visiting Professor, CiSTUP
 - 5:00 pm: Closing remarks and Vote of Thanks
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Course participants will be provided with links to download all presentations, and a document outlining the program, a summary and recommendations from the workshop.

Who will benefit: Government, industry and consultant engineers and students at all levels (BTech/MSc/MTech/PhD) or Faculty from academic institutions and technical institutions.

<http://cistup.iisc.ac.in/pothole/index.html>

Organizing committee: Dr. Rajib B Mallick, Dr. G L S Sivakumar Babu, Dr. Abdul Rawoof Pinjari