

Innovative Techniques in Pavement Management to Extend Service Life

- Wednesday December 4th, 2019 | 2:00 – 3:45 PM (CST)
- **Free registration at:** <https://bit.ly/337MBuw>
- **Information at:** <https://transet.lsu.edu/webinars/>

Use of Wireless Sensors to Monitor Pavement Mechanical Responses for Supporting Rehabilitation Decision Making

This presentation will demonstrate several case studies of using a type of wireless sensor, called SmartRock, to collect particle motion data for in-service pavement and obtain critical mechanical responses of asphalt pavement. The long-term goal of this study is to integrate the real-time mechanical response data with finite element modeling tools to realize reliable pavement performance modeling for supporting rehabilitation decision making.



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Self-Powered Self-Sensing Automated Civil Infrastructure

The presentation introduces on-going work aimed at developing sensing and communication technologies for Highway Construction, Asset Management, and for Infrastructure-to-Vehicles connectivity. The work is funded by the Federal Highway Administration (FHWA) and the National Sciences Foundation (NSA).

Decision-Making Tool for Road Preventive Maintenance Using Vehicle Vibration Data

Existing sensing methods for road damage inspection are often hard to be scalable due to its cost. This webinar presents the approach to estimate road damage types from crowdsourced vibration data and discusses its feasibility and remaining challenges.



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