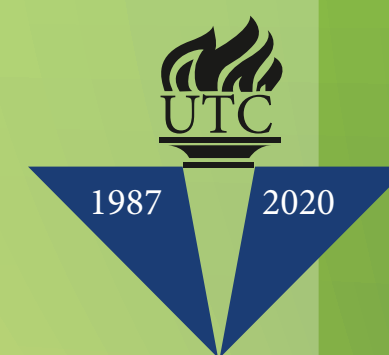




U.S. Department of Transportation  
Office of the Secretary of Transportation



# TRANSPORTATION INNOVATION SERIES

*A strategic outreach series hosted by the  
Office of the Assistant Secretary for Research and Technology*

## Improving Bridge Assessment, Prognosis, and Interventions through Emerging Technology

Frank L. Moon, Ph.D., Center for Advanced Infrastructure and Transportation (CAIT) Rutgers, The State University of New Jersey

Wednesday, March 21, 2018 • 1:00pm – 2:00pm  
USDOT Headquarters West Building Conference Center – Room 7



While additional funding is a necessary condition to meet the challenges posed by the aging U.S. bridge population, funding alone will not be sufficient. Rather, realizing a sustainable approach to our transportation infrastructure will require new assessment

strategies that better quantify risks, diagnose performance problems, and inform decisions related to infrastructure interventions. In addition, more accurate means of forecasting future condition

and identifying new and effective intervention approaches is also needed. The objective of this presentation is to provide a high-level overview of three emerging technologies that aim to fill these critical roles. In particular, the presentation will provide an overview of (a) the state-of-the-art in nondestructive evaluation of reinforced concrete bridge decks, (b) a self-contained vehicle capable of performing rapid modal testing and refined load rating of highway bridges, and (c) the newly commissioned Bridge Evaluation and Accelerated Structural Testing (BEAST) Laboratory at Rutgers.

Sponsored by: Office of the Assistant Secretary for Research and Technology (OST-R), University Transportation Centers Program

**DISCLAIMER:** The views, opinions, findings and conclusions reflected in this presentation are the responsibility of the authors only and do not represent the official policy or position of the USDOT/OST-R, or any State or other entity.

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Sign language interpreters will be available for deaf participants who wish to attend this event.  
If you need a reasonable accommodation, please email [drc.interpreters@dot.gov](mailto:drc.interpreters@dot.gov) or phone at 202-366-9433 /  
TTY: 202-366-6242 at least 3 business days prior to the event.