

# RUTGERS

Center for Advanced Infrastructure  
and Transportation

## Traveling Lecture Series: State of Good Repair

# Intelligent Compaction: Standardization Needs from Manufactures to Users

*A National University Transportation Center Consortium Event*

Thursday

**January 8, 2015**

1:00–2:00 p.m. (EST)



Seminar hosted by University  
of Texas at El Paso

Registration is not required.  
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## Overcoming gaps and barriers to IC

Dr. António Gomes Correia will present different technologies available in the market for compaction management. This technology known as Intelligent Compaction (IC) uses vibratory rollers equipped with roller-integrated measurements, global positioning systems, onboard report systems, and optional auto-feedbacks. IC is currently in use by contractors and has proven to provide immediate benefits in terms of productivity, efficiency, and safety to agencies and contractors alike.

With several manufactures independently producing this equipment the need to harmonize and standardize the functionality of the compaction equipment and technology exists. In addition worldwide acceptance criteria and quality control/quality assurance (QC/QA) procedures for the properties of the intelligent compaction of soil and aggregate bases should be developed at a global level. Dr. Correia will discuss overcoming these gaps and barriers through streamlined strategies that should involve manufactures and users.

### **FEATURED SPEAKER**

António Gomes Correia is the Vice-Dean of the School of Engineering and a Full Professor at the University of Minho, Portugal. He graduated in civil engineering from the Technical University of Lisbon in 1977, received a Doctor of Engineering Degree from Ecole Nationale des Ponts et Chaussées in Paris, France in 1985 and a Doctoral Degree in Civil Engineering from the Technical University of Lisbon, Portugal.

He is involved in research, teaching and consulting in the general field of geotechnics and pavement engineering for the past 36 years. His work embraces transportation geotechnics, particularly soil and pavement geo-material properties and modelling, compaction, soil improvement, foundations, geotechnical design, and management.