



Climate and Energy Decision Making

## Sponsored Seminar

# Tiago Farias and Patrícia Baptista

Lisbon Municipal Parking Company  
Lisbon, Portugal

Instituto Superior Técnico  
Lisbon, Portugal

Presenting on:

## Topics on Transportation, Energy, and the Environment

May 25th, 2011

3:00 PM

(Lunch served at 2:50 pm)

129 Baker Conference Room  
Department of Engineering and Public Policy

### Seminar Abstract:

Tiago: DTEA - Transport, Energy and Environment is a research team that excels in innovation in the area of Transport, Energy and Environment through development, transference and dissemination of scientific and technological knowledge. An overview of the DTEA's research work will be presented. It covers, among others, the quantification of impacts in the total life-cycle analysis of different vehicle technologies and alternative energy pathways; real time monitoring of dynamic and energy characteristics of conventional and alternative vehicle technologies and pedestrians; energy and economic scenario analysis for the road transportation sector; and the study of human behavior related to technological change of vehicles.

### Speaker Bio:

Tiago Lopes Farias is currently a member of the Board of the Lisbon Municipal Parking Company. As a consultant and academic, Tiago Farias has been a Professor at the Mechanical Engineering Department of Instituto Superior Técnico, Lisbon. His research activities cover urban mobility, alternative fuel vehicles, vehicle dynamics and environmental performance modeling, experimental monitoring of the environmental performance of vehicles, environmental accessibility indicators, and alternative and sustainable solutions within the transport industry.



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### Seminar Abstract:

Patrícia: The transportation sector is facing future challenges related to the world economic crisis, the need to reduce energy dependency and to drastically reduce world greenhouse gas and local pollutants emissions. This PhD research is focused on the road transportation sector and aims to evaluate the impacts of introducing different policy options, either in terms of alternative vehicle technology, energy sources, or reducing demand for mobility. An integrated analysis of the road transportation sector future behavior is performed, in order to assess its dynamics and the impact of our present and future choices.

### Speaker Bio:

Patrícia Baptista is a PhD student and a research member at DTEA – Transport, Energy and Environment research team within the Mechanical Engineering Department of Instituto Superior Técnico, Lisbon. Her research is focused on the evaluation of the impact of new technologies and alternative fuels in the Portuguese road transportation sector. This research is part of her PhD program on Sustainable Energy Systems within the MIT Portugal Program.



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