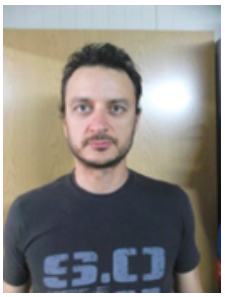
#	**PhD. Panagiotis Lemonakis**	

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Presentation title:	**Behavior of Motorcycle Riders in the Daytime and Nighttime Lighting Conditions**

Although the correlation between lighting level and road safety is still ambiguous numerous citations support that driving at night poses a greater risk to drivers than driving at daylight. Many contributory factors have been examined in order to identify the causes of night-time accidents. Evidence suggest that single vehicle accidents involving loss of control on bends in darkness is a particular problem for young drivers who record slow rate of improvement with experience, compared with other types of vehicular accidents. The literature review infers that such accidents do not imply lack of skill but rather a risky attitude resulting in deliberate speeding.

Aim of the present research is to investigate the behavior of motorcycle riders under different lighting conditions along rural roads where controlled and non-controlled intersections and a large number of horizontal curves are present. Field operational tests carried out within the framework of the study with the participation of young male riders of different experience level and instrumented motorcycles during daylight, dusk and nighttime. The riders travelled under free flow conditions and hence the only parameter that could potentially change their riding behavior was the lighting conditions. The post process of the recorded data permitted the quantitative assessment of risky attitudes and particularly the speed adjustments occurred at different times of day and night. The findings showed that the riders do not substantially alter their travel speed throughout the experimental road segments either along the roadway intervals or the intersections. Therefore, they are not aware of the risks they are exposed to when they travel under diverse lighting conditions and hence, they are not properly trained to cope safely in travels throughout day and night.

CV:

Panagiotis Lemonakis holds his diploma from the Department of Civil Engineering at University of Thessaly and his PhD from the same School. He is researcher working at the Laboratory of Highway Engineering, Department of Civil Engineering, at University of Thessaly.

Teaching activities

The academic years 2013-2014 and 2018-2019 he worked as a lecturer at the Department of Civil Engineering at University of Thessaly teaching the courses “Special topics in Highway Engineering” and “Design and Operation of Railway Transportation System” respectively. The academic year 2019-2020 he well be teaching the courses “Design and Operation of Railway Transportation System” and “Airport System Planning and Operation” to the students of the same School.

Research activities

He is the co-author of more than 17 scientific researches published in scientific journals and conferences proceedings whereas he has contributed to the publication of a book chapter. Moreover, he actively participated to the European Project 2-Be-Safe (http://www.2besafe.eu/) as member of the Highway Engineering Lab of Department of Civil Engineering in Volos which conducted behavioural and ergonomic research to develop countermeasures for enhancing Powered Two Wheeler (PTW), riders safety, including research on crash causes and human errors, and the world’s first naturalistic riding study involving instrumented PTWs. On 2018 he qualified to receive a scholarship from the Research Committee of the University of Thessaly funded by the Stavros Niarchos foundation for post-doc research in the field of Highways Safety.

His primary research fields are road safety and highway engineering focused on the decrease of vulnerable road users’ accidents. Other research fields include health and safety issues, development of traffic forecasting models and behavioral aspects of road users.

Professional activities

From 2008 to 2018 he contributed to the rehabilitation works and construction of the new sections along the national highway Athens - Thessaloniki from Kleidi Imathias up to Raches Fthiotidas working as Health and Safety Manager/Engineer/ Coordinator, Environmental and Energy officer. Among others he was responsible for all QHSE activities of the construction company including the construction of two twin bore tunnels of 9 km total length, the rehabilitation of 174 km of the existing highway and the construction of 21 km of new roads including 17 new bridges.

From 2006-2008 he worked as chief of the technical office for one of the biggest construction companies in Greece in the field of prefabrication whereas from 2004-2006 he conducted environmental and transportation studies.