

TECHNICAL UNIVERSITY - SOFIA  
FACULTY OF TRANSPORT



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SCIENTIFIC CONFERENCE

on Aeronautics, Automotive  
and Railway Engineering and Technologies

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# PREFACE

*BulTrans* International Scientific Conference on Aeronautics, Automotive and Railway Engineering and Technologies is held for the first time in 2009, as part of *The Science Days* of Technical University of Sofia. Till now, eight editions of the Conference have been organized, seven in USOB "Lazur" - Sozopol, and a jubilee forum in Sofia.



Thorough scientific achievements in the field of transport are being presented at the conference. *BulTrans* is the most prestigious scientific forum for road, railway and air transport in Bulgaria.

## OPENING ADDRESS



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*Dear colleagues and guests,*

*Welcome to the BulTrans-2017 Scientific Conference, organized annually by the Faculty of Transport at the Technical University - Sofia. Every year, our goal is to improve the conference by publishing valuable reports and articles in the field of transport and transport technology by Bulgarian and foreign scientists. This research is an essential base for the training of highly-qualified higher education professionals.*

*I wish successful and fruitful work to all participants!*