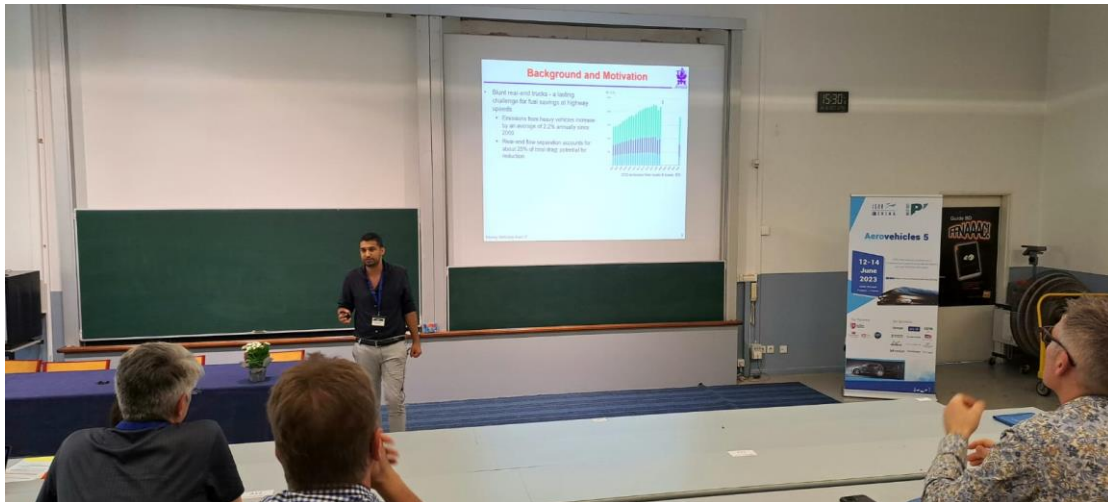


**Date:** August 31, 2023

**To:** The Israeli Smart Transportation Research Center (ISTRC)

## **Attendance Conference Report – Niv-Haim Mizrahi - "Aerovehicles 5"**

I had the privilege of participating in the [Aerovehicles 5](#) conference held from June 12th to 14th, 2023, in Poitiers. I am writing to express my gratitude to the Israeli Smart Transportation Research Center for allowing me to attend and present research conducted under the guidance of Professor Avraham Seifert. Our research focuses on developing an aerodynamic drag-reducing device for large vehicles, incorporating passive and active flow control strategies.



The Aerovehicles 5 conference serves as a platform for engineers and scientists from industry and academia to showcase recent advancements and the latest methodologies in vehicle aerodynamics while also identifying areas needing further research. This comprehensive conference encompasses various topics, including Trains, Vehicle Platooning, Real Driving Conditions, Wake Dynamics, Wheels, Flow Fields, Aeroacoustics, CFD and modelling, and my specific area of focus, Flow Control.

Several conference topics directly correlate with my research, providing valuable insights for interpreting previously acquired results. Discussing real-world road-testing methods with fellow researchers has illuminated ways to refine our experimental approach and enhance the conclusions derived from prior experiments.

Being the sole representative from Israel, I had the honor of showcasing Israeli contributions to the field of automotive aerodynamics research. Establishing personal connections with international researchers from the USA, Australia, China, and Europe bolstered the standing of Israeli research and laid the foundation for potential future collaborations in my research journey.

One of the primary takeaways from the "Aerovehicles 5" conference was the exposure to a wealth of abstracts and articles within the field of vehicle aerodynamics. These resources have proven invaluable assets, as I have shared them with colleagues at Tel-Aviv University to foster a deeper understanding of current research trends and enhance our data collection and analysis methods.

In conclusion, attending the "Aerovehicles 5" conference in Poitiers was a professional and personal transformative experience. The opportunity to attend lectures by esteemed aerodynamics experts, present my research, engage in constructive discussions, and exchange ideas was enriching and pivotal for my growth as a researcher. I wholeheartedly recommend that future researchers in this field consider submitting and presenting their work at upcoming Aerovehicles conferences.