



Trucking into the Future: Challenges, Opportunities and the Role of Technology and Innovation

CARL HERGART Ph.D.

Director of Advanced technology at the PACCAR Technical Center

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ABSTRACT: A thriving trucking industry is key to economic growth. Some 70% of US freight tonnage is transported by trucks. PACCAR is the second largest manufacturer of heavy-duty trucks in North America and offers high quality trucks under the Kenworth, Peterbilt and DAF nameplates. Improving transport efficiency remains a strong focus given its socio-economic impact. Significant improvements in fuel efficiency have been achieved over recent decades, while also substantially reducing the environmental impact. These improvements have been enabled by optimization of the truck and its subsystems including engine, aero and powertrain integration. In recent years features referred to as Advanced Predictive Features have been introduced, offering fuel economy improvements by utilizing GPS-based terrain information. Hybridization and electrification are being explored in light of future regulatory challenges and continued expectations to improve fuel efficiency. Another noteworthy trend is that of increased automation and connectivity. Today's trucks have access to a wealth of information that are leading to opportunities in areas such as Advanced Driver Assistance Systems (ADAS) and prognostics. The intent of this presentation is to provide an overview of recent developments and engage the audience in a discussion around the opportunity to boost freight efficiency.



SPEAKER BIO: Carl Hergart is the Director of Advanced Technology at the PACCAR Technical Center. Carl received his Ph. D. degree from Aachen University in Germany, specializing in in-cylinder modeling of diesel engines. Prior to joining PACCAR in 2014, Carl spent 17 years at Ford, GM, and Caterpillar in roles of increasing responsibility, most recently leading groups in the areas of combustion, after treatment, and air systems. In his current role, Carl is overseeing the Advanced Powertrain development for PACCAR in North America and his organization also supports company initiative in the realm of ergonomic and Advanced Driver Assistance Systems.