

## Press release

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Weinheim, Thursday, December 16, 2021. To promote new initiatives in mobility – that is the goal of the “Freudenberg Award – Mobility,” which was bestowed in Karlsruhe yesterday. Every two years, thy lw. (w) t mo, ÚuW...P0-S...SS...C...W...W...p...-...A...proved?Can the optimal cooling of a battery be modeled an early stage?And how can chargingbreak be calculated more reliably in advance?These are the topics that three young engineers chose for their dissertations, recently completed at the Karlsruhe Institute for Technology. On behalf of the Freudenberg- m entper, nst we th“er Feebern



it possible to offer more precise individual predictions. The engineer intends to use this development to reduce the uncertainty that continues to deter people from buying electric vehicles. “The issue of ‘anxiety about operating range’ will soon become a thing of the past,” says the third-place finalist, whose research findings are already being used in a vehicle model of a major German automaker.

### **The winners for 2021:**

- x Jairo Inga Charaja, Ph.D in engineering: “Inverse Dynamic Game Methods for Identification of Cooperative System Behavior”
- x Martin Eisele, Ph.D in engineering: “Development of a validation environment for the design of battery module cooling concepts in the early phase of product development”
- x Stefan Scheubner, Ph.D. in engineering: “Stochastic Range Estimation Algorithms for Electric Vehicles using Data-Driven Learning Models”

### **About the Freudenberg Award – Mobility**

The prize, which includes a monetary award of €10,000, serves to promote the talent of younger scientists working in the area of Mobility Systems at the Karlsruhe Institute for Technology (KIT). It is awarded every two years for the best academic project in science and engineering in the field of “Mobility Systems and their Integration and Interaction in Society.” The winners were selected by an interdisciplinary committee from the KIT using the criteria of scientific excellence and potential industrial usefulness.

The Carl Freudenberg Prize, and its successor, the Freudenberg Award – Mobility, has been bestowed since 1951. The Freudenberg Group endowed this prize in 1949, on the occasion of the 100th anniversary of its establishment. The prize was originally given the former company name, “Carl Freudenberg,” by the CEO at that time, Hans Freudenberg (1888-1966), who was the grandson of the founder Carl Freudenberg. As a former assistant professor, and then as honorary senator, Hans Freudenberg was closely associated with the University throughout his life. In 2021, the Carl Freudenberg Prize was renamed the Freudenberg Award – Mobility to emphasize the relationship with the Freudenberg Group while also reflecting more clearly the existing focus of the prize on the field of Mobility Systems. It is part of the company’s social responsibility to the region around its historic headquarters in Weinheim.



## **About the Freudenberg Group**

Freudenberg is a global technology group that strengthens its customers and