

## **SimulOscar: In Search of Academic Projects on Virtual Test Driving**

**IPG Automotive hosts fourth simulation competition**

The Karlsruhe-based manufacturer of software and hardware solutions for virtual test driving, IPG Automotive, will organize the simulation competition SimulOscar for the fourth time. The company looks for student projects focusing on the development and testing of vehicles by means of virtual development tools. With the competition, IPG Automotive aims to promote pioneering ideas and projects that were realized with the simulation software CarMaker, TruckMaker or MotorcycleMaker. Students may submit their academic projects from now until December 31, 2017. For the first time, IPG Automotive also invites students from international universities to compete.

Karlsruhe, April 4, 2017 – Today, modern vehicles are safe, comfortable and efficient. In addition to a variety of advantages, this entails an increasing networking of all subsystems, making the isolated development of individual components a thing of the past. All vehicle systems need to be tested in the context of the whole vehicle and under realistic conditions. Here, virtual test driving is steadily gaining in importance. With the innovative test method, even highly complex traffic scenarios can be represented in detail and with high fidelity.

### **Innovative ideas and projects focusing on “virtual test driving”**

Since 2015, IPG Automotive has hosted the simulation competition SimulOscar to offer students a platform to present their innovative ideas and projects on the subject of “virtual test driving” to a broad audience. Academic research projects in various areas of application in the field of vehicle development are accepted which were successfully realized with the simulation solutions CarMaker, TruckMaker and MotorcycleMaker. Whether the focus is on automated driving functions, Real Driving Emissions or chassis design – all projects have the chance to win the award.

### **The essentials at a glance: conditions of participation**

In order to ensure that as many interesting projects as possible are considered, there are no restrictions with regard to the age of the participants, the location of the university or similar aspects. This year, for the first time, the competition’s expert panel will also accept international submissions. IPG Automotive thus takes account of the increasing use of virtual test driving in an international context. Projects to be considered for the competition must have been carried out at a university by an individual student and be submitted between April 1 and December 31, 2017. Both term papers as well as detailed Bachelor’s or Master’s theses are accepted for which a summary in German or English must be submitted. All materials should be sent to [simuloscar@ipg-automotive.com](mailto:simuloscar@ipg-automotive.com). The winners will each receive a monetary award and a subscription to a specialist magazine.

### What counts: the evaluation criteria

The expert panel's main criterion is the scientific quality of the work which the students entering the competition need to demonstrate with their topic. In addition to the compliance with formal criteria, the topicality of the subject is particularly important. However, not every project needs to focus on the latest industry issues – new aspects of a well-known topic may also be investigated. What is key is the relevance of the work in the context of current trade topics.

All information on the competition, conditions of participation as well as the submission template can be found online at <https://ipg-automotive.com/company/research-teaching/#simuloscar>



**Image: For the fourth time, IPG Automotive invites students to participate in the simulation competition SimuloScaR.**

### About IPG Automotive GmbH

As an innovation driver for virtual test driving, the company is a leading global provider of software and hardware products for the automotive and supplier industry. With the areas Simulation Software, Real-time Hardware, Test Systems and Engineering Services, IPG Automotive supports its customers in creating innovations and shaping their development process efficiently.

The innovative solutions CarMaker, TruckMaker, and MotorcycleMaker, as open integration and test platforms, facilitate great savings in time and cost for customers, in a continuous development process of Model-, Software- and Hardware-in-the-Loop, all the way to the Vehicle-in-the-Loop method. The application ranges from the vehicle dynamics simulation, developing and testing of chassis control systems, to interconnected systems such as chassis, powertrain and steering to analyses with regard to e-mobility and hybrid technologies. IPG Automotive is also a leading provider of pioneering solutions for the integration and testing of advanced driver assistance systems.

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