



# AWARE Conference 2016

*Sharing knowledge – exchanging experience - networking*

10/11/2016

Universidade Federal do Paraná (UFPR)



## **AWARE – Conference 2016 (Applied Network on Automotive Research and Education):**

### **SESSION I: *Integrated Vehicle Safety***

Vehicle safety has become a key area of research for the global automotive industry. The first session of the AWARE conference will address on integrated vehicle safety and the most recent research results in this area. Guest speakers from Technical University of Ingolstadt (Germany), one of the most acknowledged research center in that area in Germany, will present innovations in the research of vehicle safety, newly developed test methods, key technologies and processes, etc. Connectivity plays an equally important role for integrated vehicle safety – both vehicle-to-vehicle and vehicle-to-infrastructure issues will be part of this session.

### **SESSION II: *Shaping the future of Mobility***

Mobility demand is expected to change during the next years. Disruptive innovations as well as changing customer behavior will play an important role. In addition to that, megatrends such as demographic change, urbanization and digitalization will have an impact as well. In the second session of the AWARE conference invited guests from industry will address their vision of the future of mobility.

### **SESSION III: *AWARE Research projects and Brazil-Germany university cooperation***

In this session the researchers from the Technical University of Ingolstadt (Germany) and the Federal University of Paraná (Brazil) will be showing the results from a 4-year cooperation effort, supported by the AWARE Project.

### **SESSION IV: *The challenges of university-industry cooperation***

The last session of the AWARE conference will present a best practice model of university-industry cooperation, followed by a panel discussion on the challenges to stablish collaborative work between university and industry.

## SESSION I: *Integrated Vehicle Safety*

TIME		Activity	Speaker
8:00h	8:10h	Welcome	Prof. Dr. Horacio Tertuliano Filho – Director of the School of Engineering (UFPR)
8:10h	8:40h	<b>Test Methods for future vehicle safety systems and CARISSMA (Center of Automotive Research on Integrated Safety Systems and Measurement Area) (Or): Vehicle-to-X-communication in CARISSMA</b>	Prof. Dr. Thomas Brandmeier (THI)  (Or) Prof. Dr. Christian Facchi (THI)
8:40h	9:10h	<b>Electromobility - Evaluating the safety of lithium-ion and double layer cells in 12 V passenger vehicle batteries</b>	Prof. Hans-Georg Schweiger (THI)
9:10h	9:40h	<b>Vehicle dynamics: Influence of in-wheel electric motors on Active Safety of passenger cars</b>	Prof. Armin Arnold (THI)
9:40h	10:10h	<b>Driver Assistance Systems as a means to increase vehicle safety</b>	Prof. Harald Göllinger (THI)
10:10h	10:30h	Coffee Break	

## SESSION II: *Shaping the Future of Mobility*

10:30h	11:15h	<b>The future of the car (tbc)</b>	Mr. Alain Tissier Vice-President, Renault do Brasil (tbc) <b>(OR) VW/Audi Brasil? (angefragt)</b>
11:15h	12:30h	<b>The future of bus and trucks (tbc)</b>	Mr. Douglas Nakano Vice-President, Volvo Trucks Latin America (Or) Alexandre Parker, Public Affairs Director, Volvo Trucks Latin America (tbc)
12:30h	14:00h	Lunch	

### SESSION III: AWARE Research projects and Brazil-Germany university cooperation

14:00h	14:15h	<b>Real time measurement of automobile driver's attention</b>	Prof. Dr. Alessandro Zimmer (UFPR) & Prof. Dr. Thomas Brandmeier (THI)
14:15h	14:30h	<b>Developing a pedestrian simulator</b>	Mr. Matheus Zimmermann (UFPR) & Mr. Igor Doric (THI)
14:30h	14:45h	<b>Developing safe battery management systems for e-Mobility</b>	Mahatma Marostica (Automotive Start-up Mobilis) & Prof. Hans-Georg Schweiger (THI)
14:45h	15:00h	<b>Advanced Materials for Automobile Brake Discs</b>	Prof. Dr. Karin Graf (UFPR), Prof. Dr. Adriano Scheid (UFR) & Prof. Dr. Ulrich Tetzlaff (THI)
15:00h	15:15h	<b>Influence of Adverse Weather Conditions on Automotive Surround Sensors</b>	Sinan Hasirlioglu (THI) & Tiago Richter (UFPR)
15:15h	15:30h	<b>Viscous-elastic absorbers</b>	Prof. Dr. Carlos Bavastri (UFPR) & Prof. Dr. Brandmeier (THI)
15:30h	16:00h	<b>Coffee Break</b>	

### SESSION IV: The challenges of university-industry cooperation

16:00	16:20	<b>Key note speech: Added values of industry-university cooperation (Airbus Defense &amp; Space)</b>	Mr. Ackermann (Airbus Defense & Space)
16.20	16.40	<b>Best practice: Research on rotor vibration in industry-university cooperation (WEG and UFPR)</b>	Mr. xxxxx (WEG EQUIPAMENTOS ELÉTRICOS S.A) - tbc
16:40h	17:30h	<b>Panel Discussion: University/Industry Cooperation</b> Mediator: Prof. Dr. Edilson Sergio Silveira (Vice-Rector on Research and Graduate Studies - UFPR) Mr. Ackermann (Airbus Defense and Space) Mr. Xxxx (WEG S.A.) - tbc Prof. Dr. João da Silva Dias (Program's Director, FUNPAR-UFPR) Mr. Xxxx (Fundação Araucária) - tbc	