

1991 1998 2000 2002 2004 2006 2008 2010 2012 2014 2016

11<sup>th</sup>

International Motorcycle Conference  
October 3-4, 2016 · Cologne



Program



# October 3-4, 2016 KOELNMESSE · Cologne

The agenda features:

**International Expert Contributions** Two days of international expert contributions regarding the present state of motorcycle matters

**Round Table Discussion** "Intelligent Transport Systems – Contribution to Motorcycle Safety"

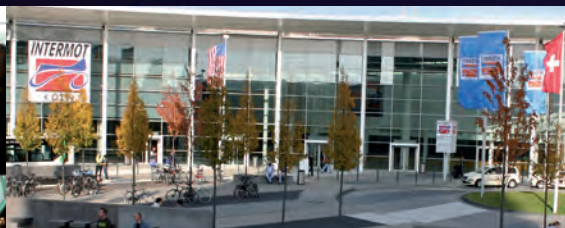
*Participating organisations/associations:*

- ACEM – The Motorcycle Industry in Europe
- Connected Motorcycle Consortium
- ETSC – European Transport Safety Council
- European Commission
- FIM – Fédération Internationale de Motocyclisme
- IMMA – International Motorcycle Manufacturers Association
- Robert Bosch GmbH, Business Unit Two-Wheeler and Powersport

**Get-Together** We invite you to a special event at the end of the first conference day. During the joint dinner on the River Rhine it is enough time to expand on the topics of motorcycle safety.

**INTERMOT** A further highlight is the exclusive visit to the International Motorcycle, Scooter and E-Bike Fair INTERMOT 2016 prior to the official opening.

*Simultaneous translation (English/German, German/English) will be provided during the conference.*



# PROGRAM

**03.10.2016** 1<sup>st</sup> Conference Day  
1. Konferenztage

**10:00** **Opening and Welcome / Eröffnung und Begrüßung**

*Dr.-Ing. Achim Kuschefski,  
Institut für Zweiradsicherheit (ifz), Germany*

**10:10** **Opening and Welcome / Eröffnung und Begrüßung**

*Tim Buche, Motorcycle Safety Foundation (MSF), USA*

**I / Session 1 Chair:**

**Prof. Andre Seeck, Federal Highway Research  
Institute (BASt), Germany**

**10:20** **An Approach for Automatic Riding Skill Identification –  
Overview about the Methodology and first Results**  
**Ein Ansatz zur Schätzung der Fahrfertigkeiten –  
ein Überblick über Methoden und erste Ergebnisse**

*Nils Magiera, Technische Universität Darmstadt,  
Fachgebiet Fahrzeugtechnik, Germany*

**10:45** **Smart Phone Riding Style Feedback Application**  
**Smartphone-Feedback-Applikation für den Fahrstil**

*Hartmut Kerwien, Institut für angewandte  
Verkehrspädagogik e.V. (avp), Germany  
Kay Schulte, Deutscher Verkehrssicherheitsrat (DVR), Germany*

**11:10** **Maneuvering a Dynamic Motorcycle Riding Simulator – Steering, Leaning and Coupling Effects in the Virtual Environment**

Manöverumsetzung auf einem dynamischen Motorrad-Fahrsimulator – Lenken, Lehnen und Kopplungseffekte in der virtuellen Umgebung

*Raphael Pleß, Technische Universität Darmstadt,  
Fachgebiet Fahrzeugtechnik, Germany*

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**11:35** **Brake or Swerve? Or both?**

Bremsen oder Ausweichen? Oder sogar beides?

*Dr.-Ing. Achim Kuschefski, ifz, Germany*

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**12:00** **VIROLO++: In-depth study of bend taking practices, towards evaluation and (re)training tools**

VIROLO++: Tiefenstudie über Kurventechniken, Evaluation und (Um-) Schulungsmaßnahmen

*Stéphane Espié, IFSTAR, France*

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**12:25** **Lunch Break / Mittagspause**

**I / Session 2 Chair:**

**Prof. Dr. Hermann Winner, Darmstadt University of Technology, Germany**

**13:25** **BMW Motorrad Intelligent Emergency Call. Mode of operation and synergistic effects to BMW cars.**

BMW Motorrad intelligenter Notruf. Wirkungsweise und Synergie-Effekte zu PKW.

*Michael Heimrath, BMW Motorrad, Germany*

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**13:50** **Preliminary Investigation of the Response to Motorcycles of Forward Collision Warning Systems**

Vorläufige Untersuchungen von Kollisionswarnsystemen mit Blick auf Motorräder

*John Lenkeit, Dynamic Research, Inc., USA*

**14:15 BMW Motorrad – Side View Assist (SVA)**  
**BMW Motorrad – Side View Assist (SVA)**

*Arne Purschwitz, BMW Motorrad, Germany*

**14:40 Motorcycles in connected traffic – a contribution to safety**  
**Vernetzte Motorräder – Ein Beitrag zur Sicherheit**

*Hennes Fischer, Yamaha Motor Europe N.V., Netherlands*

*Arne Purschwitz, BMW Motorrad, Germany*

*Oliver Kohlinger, Honda R&D Europe (Deutschland) GmbH,  
Germany*

**15:05 Coffee Break / Kaffeepause**

**Moderated Round Table Discussion**

**“Intelligent Transport Systems – Contribution to Motorcycle Safety”**

**15:25 Round Table Discussion**

ACEM – The Motorcycle Industry in Europe

Connected Motorcycle Consortium

ETSC – European Transport Safety Council

European Commission

FIM – Fédération Internationale de Motocyclisme

IMMA – International Motorcycle Manufacturers Association

Robert Bosch GmbH, Business Unit Two-Wheeler and Powersport

**16:25 Closing comments 1<sup>st</sup> day**

**Abschließende Kommentare zum ersten Konferenztag**

*Dr.-Ing. Achim Kuschefski, ifz, Germany*

**18:00 Dinner – Boat-Trip On The River Rhine**

**Speech:** *Dr. Walter Eichendorf, President of the German  
Road Safety Council (DVR), Germany*

**04.10.2016** 2<sup>nd</sup> Conference Day  
2. Konferenztag

**09:00** **Opening and Welcome / Eröffnung und Begrüßung**

*Dr.-Ing. Achim Kuschefski, ifz, Germany*

**II / Session 1 Chair:**

**Prof. Dr. Steffen Peldschus, Furtwangen University,  
Ludwig-Maximilians-University München, Germany**

**09:05** **Motorcycles and traffic filtering**

**Motorräder und das Durchfahren von Staus**

*Heike Martensen, Belgian Road Safety Institute (BRSI), Belgium*

**09:30** **A definition of a safe barrier for motorcyclists**

**Definition einer motorradfreundlichen Schutzplanke**

*Maria Nordqvist, The Swedish Motorcyclists Association  
(SMC), Sweden*

**09:55** **Mortality of motorcyclists Brazil from 2000 to 2014**

**Motorradunfälle in Brasilien von 2000 bis 2014**

*David Duarte Lima, Universidade de Brasilia, Brazil*

**10:20** **Coffee Break / Kaffeepause**

## **II / Session 2 Chair:**

**Prof. Dietmar Otte, Hannover Medical School,  
Germany**

### **10:35 Assessing Powered Two Wheelers' display and control concepts – results from a pilot study**

**Die Bewertung von Anzeige- und Bedienkonzepten motorisierter Zweiräder – Ergebnisse einer Pilotstudie**

*Sebastian Will, Würzburger Institut für Verkehrswissenschaften (WIVW), Germany*

### **11:00 Latest findings and achievements concerning the use of eye tracking in education and training of motorcycle riders**

**Neueste Erkenntnisse und Erfolge beim Einsatz von Eye-Tracking in der Motorradausbildung und beim Motorradtraining**

*Klaus Schwabe, viewpointsystem gmbh, Austria  
Martin Fellmer, Institut für angewandte Verkehrspädagogik (avp), Germany*

### **11:25 Feasibility of analysing the effects of personal protective equipment using virtual human body models**

**Machbarkeitsstudie zur Wirksamkeitsanalyse persönlicher Schutzausrüstung mit virtuellen Menschmodellen**

*Raúl Aranda, Institute of Legal Medicine, University of Munich (LMU), Germany*

### **11:50 Motorcycle helmet effect as a function of crash severity** **Motorradhelm – Einfluss auf die Verletzungsschwere**

*James V. Ouellet, Motorcycle Accident Analysis, USA*

### **12:15 Lunch Break / Mittagspause**

## II / Session 3 Chair:

**Dr. Ray Ochs, Motorcycle Safety Foundation (MSF), USA**

### **13:15 Factors that Increase and Decrease Motorcyclist Crash Risk**

**Einflussfaktoren des Motorradunfallrisikos**

*Tim Buche, Motorcycle Safety Foundation (MSF), USA*

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### **13:40 RIDERSCAN, what riders want RIDERSCAN, was Fahrer wollen**

*Dolf Willigers, Federation of European Motorcyclists' Associations (FEMA), Belgium*

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### **14:05 Investigations on the behavior of motorcyclists with different driving experience on test-areas and in real road traffic**

**Untersuchungen zum Verhalten von Motorradfahrern unterschiedlicher Fahrerfahrung auf Testgeländen und im Realverkehr**

*Tino Staffetius, Fahrzeugsystemdaten GmbH, (FSD), Germany*

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### **14:30 Coffee Break / Kaffeepause**



## II / Session 4 Chair:

**Prof. Dr. Steffen Peldschus, Furtwangen University,  
Ludwig-Maximilians-University München, Germany**

**14:45** **First on to Scene: Awareness of hazards by electric motorcycles**

**Spezifische Gefahren von Elektromotorrädern**

*Bjarni Freyr Gudmundsson, Future Electric ApS, Denmark*

**15:10** **Evaluation method of the crash safety of traction batteries for electric driven motorcycles**

**Methode zur Bewertung der Crashesicherheit von Traktionsbatterien elektrisch betriebener Motorräder**

*Christian Ellersdorfer, Graz University of Technology, Austria*

**15:35** **Design of novel tilting electric four-wheelers**

**Design eines neuartigen neigbaren elektrischen 4-Rad-Fahrzeugs**

*Francesco Bucchi, University of Pisa, Italy*

**Closing Comments / Abschließende Kommentare**

*Tim Buche, MSF*

*Dr.-Ing. Achim Kuschefski, ifz*

**Trade Fair Visit  
INTERMOT Cologne 2016**



# CONFERENCE REGISTRATION

## Registration:

You have the opportunity to registrate for participation at the conference online under the following link latest by September 29, 2016.

<http://www.ifz.de/international-motorcycle-conference/>

Please find here more details of the registration as well as more general conference information.

## Registration Fee\*:

Participants:	€ 525,-
Students:**	€ 280,-

Payment after receipt of invoice

\* Includes the participation at both conference days, lunch, refreshment breaks, beverages, evening program on the first conference day, official conference papers and information leaflets.

\*\* Please valid your status as a university student.

## Hotel Reservation:

The ifz kindly asks you to arrange for your hotel accommodation by yourself. You can book online via Koelnmesse. Please choose here "Fair" from the alphabetical list and select "11<sup>th</sup> International Motorcycle Conference".

<http://www.ifz.de/hotels/>

## Conference Venue:

Conference Location  
Congress-Centrum Koelnmesse  
Congress-Centrum North, 2<sup>nd</sup> floor  
Rheinsaal  
Deutz-Mülheimer-Straße 111  
D-50679 Köln  
[www.koelnkongress.de](http://www.koelnkongress.de)

# STEERING COMMITTEE

**Reiner Brendicke** (Chairman)

German Motorcycle Industry Association (IVM)

**Dipl.-Ing. Christoph Albus**

Federal Ministry of Transport and Digital Infrastructure (BMVI)

**Tim Buche**

Motorcycle Safety Foundation (MSF)

**Christian Kellner**

German Road Safety Council (DVR)

**Dr.-Ing. Achim Kuschefski**

Institute for Motorcycle Safety (ifz)

**Prof. Dietmar Otte**

Hannover Medical School (MHH)

**Prof. Dr. Steffen Peldschus**

Furtwangen University (HFU) and

Ludwig-Maximilians-University München (LMU Munich)

**Antonio Perlot**

ACEM - The Motorcycle Industry in Europe

**Prof. Andre Seeck**

Federal Highway Research Institute (BASt)

**Prof. Dr. Hermann Winner**

Darmstadt University of Technology (TU Darmstadt)

# Partners of the 1<sup>th</sup> International Motorcycle Conference:



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