

15 INTERNATIONAL MOTORCYCLE CONFERENCE

05/06 DECEMBER 2024
COLOGNE / INTERMOT



PROGRAM



05.12.2024

1st Conference Day

10
00

Opening and Welcome

André Lang | Institut für Zweiradsicherheit (ifz), Germany

10
05

Opening and Welcome

Lisa Falkenberg | German Road Safety Council (DVR), Germany

**I / Session 1 Chair: Dr.-Ing. Patrick Seiniger,
Federal Highway Research Institute (BASt), Germany**



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Are emergency steering assistance systems the new frontier
for further enhancing motorcyclists' safety?
An exploratory analysis based on crash simulations and field testing

Cosimo Lucci | University of Florence, Italy

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A Matter of Time: Investigation of Warning Timing
for Motorcycle Rider Assistance Systems

Sebastian Will | Würzburg Institute for Traffic Sciences (WIVW GmbH), Germany

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05

A Study of Path Prediction Algorithm for Camera-Based Rider Assistance System

Shoma Hasegawa | YAMAHA Motor Co. Ltd., Japan

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A study of riding behavior changes through scoring and advice feedback for PTWs

Taro Onoue | YAMAHA Motor Co. Ltd., Japan



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The effectiveness of Cornering ABS on motorcycles
in reducing real-life crashes, compared to regular ABS

Matteo Rizzi | Swedish Transport Administration, Sweden

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Lunch Break

**I / Session 2 Chair: Prof. Dr. Steffen Peldschus,
Ludwig-Maximilians-University München (LMU Munich), Germany**

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The effects of lane filtering on highways for motorcyclists

Kishan Vandael Schreurs | Vias Institute, Belgium

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A maneuver-based hazard theory approach (Improvement of
motorcycle rider safety by reducing the rider's mental workload)

*Klaus Schwabe | KTM RIDERS ACADEMY by Klaus Schwabe, Austria &
Sebastian Will | WIVW GmbH, Germany*

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High-side falls: Analysis of videos and airbag data collected
during racing accidents

Oscar Cherta-Ballester | In&motion, France

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Comparison of bend-taking on thermal and electric motorcycles:
qualitative studies

Stéphane Espié | Université Gustave-Eiffel, France

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Influencing the trajectory of motorcyclists through strategic curve markings

Arnd Pettirsch | Institut für Straßenwesen, RWTH Aachen, Germany

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Coffee
Break



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SPECIAL SESSION

“RIDING TOGETHER TO THE FUTURE”

In addition to the presentation of the social and industrial contribution of motorcycling in Europe with the Motorcycling Manifesto and the Industry Vision 2030+, three further presentations focus on connected riding and will serve as the basis for an exciting expert talk between Hennes Fischer (CMC/Yamaha Motor Europe N.V.) and Matthias Mörbe (BOSCH).



Chair: Antonio Perlot,
ACEM – The Motorcycle Industry in Europe

Accident data analyses within the Connected Motorcycle Consortium –
an international overview of PTW accidents

Peter Miklis | Verkehrsunfallforschung an der TU Dresden GmbH (VUFO), Germany

Advancement of Driver Assistance Systems for BMW Motorrad
through Innovative Technologies

Arthur Werle, Maxime Compagnon | BMW Motorrad, Germany

Motorcycle-specific trajectory prediction based on vehicle dynamics, rider inputs and
behaviour information for future assistance systems

Karl Ludwig Stolle | Robert Bosch GmbH, Germany

EXPERT TALK



Hennes Fischer
(CMC / Yamaha Motor Europe N.V.)



Matthias Mörbe
(BOSCH)

16
45

Closing comments 1st Conference day

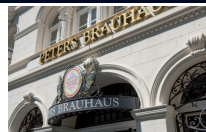
Alexander Conrad | Institut für Zweiradsicherheit (ifz), Germany

19
30

Dinner
Hahnenstr. 22
50667 Köln



PETERS
AM HAHNENTOR





06.12.2024

2nd Conference Day

09
00

Opening and Welcome

Ray Ochs | Motorcycle Safety Foundation (MSF), United States of America

II / Session 1 Chair: Dr. Veneta Vassileva, ACEM – The Motorcycle Industry in Europe



09
05

Improving Motorcycle Safety: Designing and Assessing
Auditory Alert Systems for Motorcyclists

Colin Ballantyne | KTM Forschungs & Entwicklungs GmbH, Austria

&

Serkan Atamer | Chair of Acoustics and Haptics, TU Dresden, Germany

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Towards Full-Body Motion Capture of Motorcyclists
In Situ – A Validation Study and User Report

Wolfgang Kremser | Salzburg Research Forschungsgesellschaft mbH, Austria

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Improving Motorcyclist Safety through Hearing in All Directions:
Survey Results Concerning a Novel Protective Helmet with Earpieces

Felipe Morales V. | Resonar, Colombia

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Motorcycle Registration and Motorcyclist Fatalities in the U.S.

Ray Ochs | Motorcycle Safety Foundation (MSF), United States of America

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Coffee
Break



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FIM-AWARDS

FOR YOUNG RESEARCHERS

PRESENTED BY

DR. DIMITRI MARGARITIS

FIM EUROPE CHAIRMAN OF PUBLIC AFFAIRS COMMISSION

II / Session 2 Chair: Dr. Sebastian Will, Würzburg Institute for Traffic Sciences (WIVW), Germany



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Comparing Riders' Experiences in Real Life Crashes with and without Airbag Jackets

Martin Winkelbauer | KFV (Kuratorium für Verkehrssicherheit), Austria

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Navigating the Future: Enhancing Motorcycle Safety with HUD Technology

Christin Fonfara | digades GmbH, Germany

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An Approach to Rider Behavior Profiling based on Naturalistic Riding Data

Raphael Pleß | WIVW GmbH, Germany

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Enhancing helmet safety: Development of a novel tangential impact absorption system using shear thickening fluids

Giuseppe La Fauci | O-DAMP / University of Bologna, Italy

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05

Closing comments 2nd Conference day

André Lang | Institut für Zweiradsicherheit (ifz), Germany

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Farewell
Lunch

Trade Fair Visit
INTERMOT 2024

**IT'S
ALL RIDE**
#INTERMOT2024



INTERMOT



Partners of the 15th International Motorcycle Conference



**Included for all
conference participants:**

Visit of the International
Motorcycle and Scooter Fair
INTERMOT Cologne.



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