Welcome to Berlin!

11th International Symposium on PASSIVE SAFETY of RAIL VEHICLES

Berlin, 23 - 24 March 2017

www.railway-network.eu/passive-safety

Your application is very welcome before 17th of March 2017

Apply now to join the SYMPOSIUM and the EXHIBITION with all advantages of SYSTEMATIC NETWORKING!

Official partners of the exhibition PASSIVE SAFETY 2017

The WORLD CONFERENCE on PASSIVE SAFETY of RAIL VEHICLES

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Place your company logo here ➔ email@railway-network.eu

www.railway-network.eu/passive-safety
WHY to join the international symposium for railway and passive safety experts?

During the 11th symposium all relevant aspects of PASSIVE SAFETY of different categories of rail vehicles (vehicles for high speed transportation systems, light rail vehicles, trams, locomotives, coaches, freight waggons etc.) shall be reflected. Speakers from different countries are preparing highly specialised presentations to discuss relevant topics with participants from all over the world. We are looking forward to seeing you in Berlin!

If the following TOPICS are relevant to your current fields of work, the Symposium PASSIVE SAFETY is relevant for YOU!

**PASSIVE SAFETY of RAIL VEHICLES**

**Berlin**

**23 - 24 March 2017**

**ROLLING STOCK**

* RAILWAY VEHICLES
  * CRASHWORTHINESS
  * INTERIOR DESIGN

**RESEARCH & DEVELOPMENT**

* SCIENTIFIC RESEARCH
  * PRODUCE DEVELOPMENT
  * SIMULATION AND TESTING
  * (NEW) MATERIALS

**EN 15227**

* CRASHWORTHINESS REQUIREMENTS
  * COLLISION SCENARIOS
  * REVISION OF THE EN 15227

**REGULATIONS**

* INTERNATIONAL ASPECTS: ASIA, EUROPE, U.S.A.
  * LEGISLATION
  * HOMOLOGATION
## PROGRAMME on Thursday, 23 March 2017

11th International Symposium on PASSIVE SAFETY of RAIL VEHICLES

<table>
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<tr>
<th>Time</th>
<th>Activity</th>
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<tr>
<td>08:15 - 09:15</td>
<td><strong>CHECK-IN-TIME: Come together / Exhibition / Networking Coffee #1</strong></td>
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<tr>
<td></td>
<td><strong>Opening speech: PASSIVE SAFETY of RAIL VEHICLES 2017</strong></td>
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<tr>
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<td>Dr. Gerhard <strong>ULM</strong> - Head of the Berlin Institute - [Physikalisch-Technische Bundesanstalt (PTB), Berlin]</td>
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</tbody>
</table>
|               | On the European standardization activities for the front end design of street cars: Requirements to protect pedestrians in case of frontal collisions with trams and light rail vehicles by using passive safety systems  
|               | Dipl. Ing. Dr. habil. Alois **STARLINGER** - Member of the Group Executive Board; Head of Vehicle Authorization, Structural Analysis & Testing - [Stadler Rail Group; Altenrhein / Switzerland] |
|               | Revision of EN 15227: Status quo and perspectives                         |
|               | Dipl. Ing. Dr. habil. Alois **STARLINGER**                                |
|               | **NETWORKING-BREAK** Networking Coffee and Exhibition PASSIVE SAFETY #2   |
|               | **Tram to pedestrian collision:** Recommendations and requirements: Tramway front end design  
|               | Dipl. Ing. Emmanuel **JUBIN** - Tramway specialist - [Service Technique des Remontées Mécaniques et des Transports Guidés (STRMTG) Tramways department; Saint Martin d'Heres / France] et al. |
|               | **Accidents of pedestrians with trams in Czech Republic:** The new european standard >Vehicle end design for trams and light rail vehicles with respect to pedestrian safety<  
|               | Dr.-Ing. Zdenek **MALKOVSKY** - Chairman of Board and General Manager - [VÚKV a.s.; Prague / Czech Republic] et al. |
|               | **NETWORKING-BREAK** LUNCH / Networking Coffee / Exhibition PASSIVE SAFETY #3 |
|               | **THOR-M dummy in railway applications:** Comparison of current practice of interior passive safety with the THOR-M dummy FE model  
|               | Dipl. Ing (ENSAM) Dominique **LE CORRE** - Head of crash center of competence / Innovation manager - [ALSTOM TRANSPORT SA; Reichshoffen / France] et al. |
|               | **Development of an APTA Compliant Energy Absorbing Workstation Table:** New Concept Development  
|               | William J. **LUEBKE** - Advance Engineering Manager - [Kustom Seating Unlimited, Inc.; Bellwood / IL / USA] |
|               | **NETWORKING-BREAK** Networking Coffee and Exhibition PASSIVE SAFETY #4   |
|               | **Protection of equipment in case of collision against low obstacle, with the problematic of the numerous animal impacts**  
|               | Patrick **JUMIN**, Ph. D. - Carbody Technical Manager - [SNCF - Direction du matériel; Le Mans / France] et al. |
|               | **The use of passenger questionnaires in accident investigation:** Lessons learned from accidents help towards designing safer rail vehicles in the future  
|               | Winston **RASAIH** - Principal Inspector - [Rail Accident Investigation Branch (RAIB); Derby / United Kingdom] et al. |
|               | **Most relevant topics of PASSIVE SAFETY in the next generation of rail vehicles**  
|               | Dipl.-Volkswirt E. **SCHULZ** - Managing Director - [IFV Bahntechnik e.V.; Berlin / Germany] |
|                | **17:15 (approx.) End of the programme of the FIRST CONFERENCE DAY**       |

### NETWORKING EVENT

**PASSIVE SAFETY 2017**

Sightseeing-Tour & Networking-Dinner #5

**BERLIN BY NIGHT**
# PROGRAMME on Friday, 24 March 2017

11th International Symposium on PASSIVE SAFETY of RAIL VEHICLES

<table>
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<tr>
<th>☐ 07:45 - 08:45</th>
<th>CHECK-IN-TIME: Come together / Exhibition / Networking Coffee #6</th>
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| **PASSIVE SAFETY 2017:** Interdisciplinary Railway Research (Interdisciplinary, Innovative, International)  
Dipl.-Volkwirt E. **SCHULZ** - CEO - [Interdisciplinary Railway Research Association; Berlin / Germany]  
Dynamic and Quasi-Static Testing to Evaluate the APTA Table Standard  
Kristine **SEVERSON**, M.Sc. - Senior Mechanical Engineer - [U.S. Department of Transportation: Volpe National Transportation Systems Center; Cambridge, MA / USA] et al.  
Crash management system of the new BART car San Francisco (Bay Area Rapid Transit):  
Efficient, lightweight and structurally load-bearing crash concept using aluminum and steel structure  
Dipl.-Ing. (FH) Nico **WARNIT** - [Bombardier Transportation; Hennigsdorf / Germany etc.] et al.  
<table>
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<th><strong>NETWORKING-BREAK</strong></th>
<th>Networking Coffee and Exhibition PASSIVE SAFETY #7</th>
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</table>
| Research of passenger’s safety sitting on the typical Japanese transverse seat in the event of a level crossing accident  
Tomohiro **OKINO** - Vehicle structure technology division - [Railway Technical Research Institute; Tokyo / Japan]  
Pre-assembled front modules incorporating crashworthiness:  
New interface approach and the implications for the crushworthy design of front modules  
Dipl.-Ing. Sebastian **HAUPT**, CAE Engineer Crushworthy Design - and Dipl.-Ing. Gerhard M. **SCHMIDT** - Senior Eng.; [Siemens AG (MO MLT EN-HSC CI SE ACD); Krefeld / Germany] et al.  
<table>
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<th><strong>NETWORKING-BREAK</strong></th>
<th>LUNCH / Networking Coffee / Exhibition PASSIVE SAFETY #8</th>
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| New applications and development directions of peeling crash technology:  
Principles and examples of application for tram, metros, EMU’s, locomotives and high speed trains  
Diplom-Ing. Leszek **WASILEWSKI** - Director Research & Development - [Axtone S.A.; Kańczuga / Poland]  
**CrashLink:**  
Omnidirectional Anticlimber  
Dipl. Ing. ETH / SIA Simon **LEUTENEGGER** - [Leutenegger Engineering & Consulting; Winterthur / Switzerland]  
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<th><strong>NETWORKING-BREAK</strong></th>
<th>Networking Coffee and Exhibition PASSIVE SAFETY #9</th>
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| Crash concept of the Next Generation Train (NGT) intermediate cars:  
Fulfilment of passive safety standard EN 15227 (crash scenarios) using a full-scale demonstrator  
Dipl.-Ing. Michael **ZIMMERMANN**; Dr. Jens KÖNIG; Dr.-Ing. Joachim WINTER, Prof. Dr.-Ing. Horst E. FRIEDRICH - [German Aerospace Center (DLR); Stuttgart / Germany]  
Application of Finite Element Method Analysis for Railway Vehicle Seat Crashworthiness Assessment  
Prof. Dr. Lele **ZHANG** - [Beijing Jiaotong University; Beijing / China] et al.  
**Conclusion:** PASSIVE SAFETY 2017, 2019 and beyond: Lessons from the past ... how to analyze failures  
Prof. Dr.-Ing. Pedro D. **PORTELLA** - [Bundesanstalt f. Materialforschung u.-prüfung (BAM), Dept. Materials Engineering, Berlin / Germany] and Dipl.-Volkwirt E. **SCHULZ** - CEO - [IFV Bahntechnik e.V.] *** Conclusion  
| ☐ 16:00 ~ 16:15 | End of the programme of the SECOND CONFERENCE DAY  
FINAL NETWORKING (#10) or PTB-VIEWING-TOUR (optional)  
DEPARTURE TIME will be (approx.): ~ 16:30 |

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**EXHIBITION PASSIVE SAFETY (23 - 24 March 2017)**

**The WORLD CONFERENCE on PASSIVE SAFETY of RAIL VEHICLES**

**Axtone**

**OLEO INTERNATIONAL**

**THANKS TO THE OFFICIAL EXHIBITION PARTNERS!**

www.railway-network.eu/passive-safety
EXHIBITORS and OFFICIAL SPONSORING PARTNERS
PASSIVE SAFETY of RAIL VEHICLES 2017

Visit the WORLD CONFERENCE and the EXHIBITION on PASSIVE SAFETY of RAIL VEHICLES
Berlin, 23 - 24 March 2017

How to become an OFFICIAL PARTNER of PASSIVE SAFETY:

- Bronze-Sponsor (LOGO)
- Silver-Sponsor (LOGO + ADVERTISEMENT)
- Gold-Sponsor (LOGO + ADVERTISEMENT + EXHIBITION + ONE COMBI-TICKET inclusive)

Phone: +49(0)30 81898731 or e-Mail: redaktion@ifv-bahntechnik.de

Acknowledgement:
The 11th symposium PASSIVE SAFETY is organised in friendly cooperation of IFV BAHNTECHNIK e.V. (CONTENT), IFV Beratung und Service GmbH (ORGANISATION) and TU Berlin, FG Schienenfahrzeuge (PATRONAGE) and many PASSIVE SAFETY EXPERTS as consulting partner and members of the PROGRAMME COMMITTEE. Physikalisch Technische Bundesanstalt allowed to use the PTB conference hall in Berlin Charlottenburg for the PASSIVE SAFETY 2017 - thank you very much!
The complete PROGRAMME of the 11th International Symposium PASSIVE SAFETY of RAIL VEHICLES 2017 (and all updates of the programme) may be found online on the conference homepage:

>>> www.railway-network.eu/passive-safety

or >>> www.ifv-bahntechnik.de

DEADLINE FOR PARTICIPANT APPLICATION: Wednesday, 17th of March 2017

The mandatory APPLICATION FORM is available on the conference website:

Hotel recommendation for the symposium PASSIVE SAFETY* in BERLIN-CHARLOTTENBURG.
The complete list of hotels at the venue is available for registered participants. ➔ Just ask the organiser IFV BAHNTECHNIK e.V. (Team Event-Management) for assistance.
* Participants need a check-in-card to enter the conference rooms. Registered participants will receive their check-in-card by e-mail, or at the check-in-counter (after completing the payment process).

Contact the Organiser of the symposium PASSIVE SAFETY:
IFV Bahntechnik e.V. (Interdisciplinary Railway Research Network)
Salzufer 17 - 19/ SG20, 10587 Berlin - Fax: +49(0)30 31425452
Phone: +49(0)30 31421698 (Mr. Schulz, Managing Director, CEO)
Phone: +49(0)30 31429298 (Ms. Heyer, Event Management)
Phone: +49(0)30 31473807 (Ms. Scheffler-Schuch, Payment)
E-mail: office@railway-network.eu or event@ifv-bahntechnik.de

Please ask for BRONZE, SILVER or GOLD packages for exhibitors or PLATINUM package for GENERAL SPONSORING PARTNER. The official list of EXHIBITORS and SPONSORING PARTNER will be updated regularly on the conference homepage:

>>> www.railway-network.eu/passive-safety

The Proceedings of the PASSIVE SAFETY symposia are available as PRINTED BOOKS, published by IFV BAHNTECHNIK.


All available PUBLICATIONS from our BOOKS IN PRINT LIST may be ordered directly from the publisher - (not: amazon):

>>> ORDER FORM: www.ifv-bahntechnik.de/literatur.pdf
APPLICATION FORM FOR CONFERENCE PARTICIPANTS
PASSIVE SAFETY 2017

THREE STEP REGISTRATION PROCESS:

1. In order to be registered as a participant we ask you to send a binding registration before 17th of March 2017. Please fill in the registration form and send it to IFV Bahntechnik e.V. (or to IFV GmbH) via fax or e-mail. (Do not forget your signature!).
2. As soon as your registration form has arrived we will send a written confirmation of application and an invoice to the address you have stated. You will also receive a list of RECOMMENDED HOTELS at the venue for your convenient booking.
3. The registration fee is due at the time of registration and has to be paid completely before 21st of March 2017. Only participants with valid check-in-card are allowed to enter the conference rooms and to join the symposium (and the exhibition hall).

The documents mentioned above will be sent to you by mail as well as via e-mail. Therefore we kindly ask you to state your e-mail address on the registration form. Attached to the e-mail you will also find the address and the directions to the conference venue.

If you have any questions - just contact the organising team at IFV BAHntechnik e.V. - (www.Railway-Research-Association.eu/)

Herewith I declare my binding participation in the symposium >>> PASSIVE SAFETY 2017 <<< on 23-24 March 2017 in Berlin. The fee is due at the time of registration.

I agree with the terms and conditions of the organiser (www.ifv-bahntechnik.de/agb.pdf).

Please send the completed and signed APPLICATION FORM via e-mail >>> tagung@ifv-bahntechnik.de or Fax >>> +49(0)30 31425452 (respectively +49(0)0700 47472000).

PARTICIPANT:

[] Mr / [] Ms

NAME:

Company (Dept.):

Street:

ZIP Code, City, Country:

Telephone / Cellular:

E-MAIL:

BILLING ADDRESS (PLEASE IN CAPITAL LETTERS)

Billing Address:

UID-number:

The participant will receive extensive conference materials - including the printed proceedings PASSIVE SAFETY 2017.
To promote the networking activities of participants and speakers, the evening event (Berlin by night) is already included.

Complete payment must be received before 21st of March 2017. Delegates may pay on site in case of problems with bank transfer (+100 € fee).

1350,- EURO PARTICIPANT TICKET (last minute fee)

Regular participant ticket includes entrance for both conference days of PASSIVE SAFETY 2017 and the evening event [inclusive lectures, conference catering, conference proceedings (value of the printed book: 210 EURO), VAT].

ALL REGULAR PARTICIPANT FEES have to be paid via bank transfer (or via credit card) before 21st of March 2017 to avoid an additional fee of 100 EURO because delayed payment handling.

REduced FEE / MEMBER TICKET / VIP TICKET *

☐ 1250 EURO* Reduced fee ticket for corporate members of IFV BAHntechnik e.V.
☐ 1150 EURO* Reduced fee ticket for personal members of IFV BAHntechnik e.V.
☐ 1050 EURO* Reduced fee ticket for co-speaker, co-author or VIP-Guests of the sponsoring partners

* Reduced fee has to be paid before 21st of March 2017 (otherwise the REGULAR PRICE has to be paid)

→ PLEASE INDICATE: Preferred payment method: ☐ Bank Transfer ☐ Credit Card (plus 22 € bank fee)
→ SPONSORING-PACKAGES: ☐ Bronze: 500 €; - ☐ Silver: 1500 €; - ☐ Gold-Sponsor: 3500 € (plus VAT)

>>> Date / Signature: 

Payment Procedure: Please notice that your personal check-in-card will be activated after the payment process is finished. In case of delayed or incomplete payment the regular registration fee plus an extra handling fee of 100 € will be charged when paying cash on site (BEFORE THE CONFERENCE BEGINS). Complete fee has to be paid before entering the conference rooms.
Cancellation conditions: Regular cancellation is possible 6 weeks before the conference begins. Cancellation fee: 150 €.

In order to avoid any cancellation fees, we recommend to nominate a substitute from your company - completely free of charge!

Do you have any questions? → PLEASE CONTACT THE ORGANISER:

>>> Managing Director: Mr. Schultz (CEO) - phone: +49(0)30 81898731 - cell phone: +49(0)17670094803
>>> Registration: Event-Manager (Ms. Heyer): +49(0)30 31429293 - Payment (Ms. Scheffler Schuch): +49(0)30 31473807
>>> E-mail: event@ifv-bahntechnik.de or tagung@ifv-bahntechnik.de - Fax: +49(0)30 31425452 or Fax +49(0)70047472000

DEADLINE FOR PARTICIPANT APPLICATION: 17th of March 2017 (update: v7)

The programme may be subject to alterations! - See conference website: www.railway-network.eu/passive-safety - Programme Version: 16th of March 2017 (update: v7)