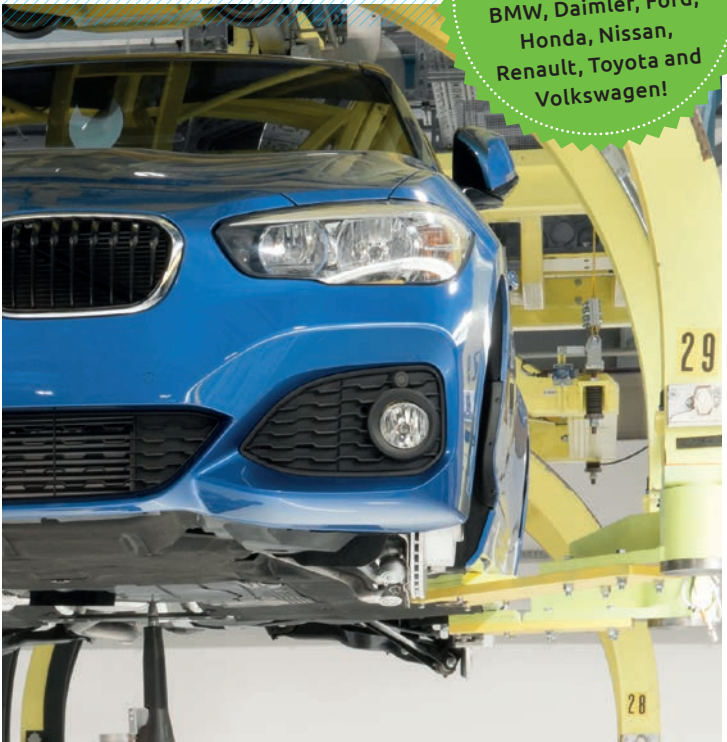


ASSEMBLY ENGINEERING 2019

19 – 20 FEBRUARY 2019
BAD NAUHEIM, GERMANY

 **PLUS BESTOWAL OF THE INNOVATION AWARD 2019!**

A S S E M B L Y



**WITH 10 OEM
REPORTS FROM**

**BMW, Daimler, Ford,
Honda, Nissan,
Renault, Toyota and
Volkswagen!**

ASSEMBLY IN THE FIELD OF TENSION BETWEEN DIGITALISATION AND IT SECURITY

Alternative drive types and the trend towards ever more individual product variants ensure that the call for flexible assembly and logistics processes can be heard ever louder. In order to increase the flexibility of final assembly and optimize the efficiency of the individual process steps, assembly increasingly relies on new technologies, data exchange and connected production systems. However, the more final assembly is digitized, the more interfaces arise and the more data flows. IT security and data protection therefore play a central role in minimizing vulnerability and in taking full advantage of the opportunities offered by IoT.

At the upcoming assembly conference, we will discuss these topics and provide answers to the crucial questions that determine the success of assembly. Join us and take part in a further exchange with our top-class network of globally leading automobile manufacturers, suppliers and research institutes.



The international OEM Advisory Board and I look forward to seeing you there.

Katharina Röder
Presidium
Automotive Circle



THE CONFERENCE ADDRESSES:

- ▶ Automotive engineers with responsibilities for assembly processes and assembly systems, in the pre-development, development, planning and production of international OEM
- ▶ as well as from corresponding system suppliers and engineering service providers.

ASSEMBLY ENGINEERING INNOVATION AWARD 2019



After its premiere at last year's conference, the Automotive Circle confers the **ASSEMBLY ENGINEERING INNOVATION AWARD** again in 2019. We are very pleased at this opportunity to honor the best and most inspiring innovations applied in the series production of leading automotive manufacturers.

Before, please contribute your expert knowledge by deciding with your voting card which of the innovations in the contest has impressed you most and should therefore be the winner of the Assembly Engineering Innovation Award 2019.

COMPETITORS 2019:

BMW GROUP
DAIMLER AG
FORD-WERKE GMBH
HONDA ENGINEERING CO., LTD.
NISSAN MOTORS CO., LTD
TOYOTA MOTOR CORPORATION
VOLKSWAGEN NUTZFAHRZEUGE

INTERNATIONAL OEM ADVISORY BOARD



Dr. Henning Löser,
Audi AG, DE



Klaus Sammer,
BMW Group, DE



Matthias Müller,
Daimler AG, DE



Vic Daenen,
Ford-Werke GmbH, DE



David Aimable-Lina,
**Jaguar Land Rover
Ltd., GB**



Yasushi Masuda,
**Nissan Motors Co.,
Ltd., JP**



Pierre Mairlot,
Renault S.A.S., FR



Yuji Nabeshima,
**Toyota Motor
Corporation, JP**



Dr. Rolf Brinkmann,
Volkswagen AG, DE

**MEET THE
LEADING
OEM NETWORK**

PROGRAMME

TUESDAY, 19 FEBRUARY 2019

9.00 h **Welcome and conference introduction**
Katharina Roeder, Automotive Circle, DE

PROCESS OPTIMIZATION IN ASSEMBLY AND LOGISTICS

9.15 h **Object coupled assembly system**
Jörg Melchinger, Daimler AG, DE



9.45 h **Flexible production line and parts flow concept for managing diversity**
Naoki Ishida, Nissan Motor Co., JP



10.15 h **Just in time kit supply by FIFO logistic system**
Daisuke Hashimoto, Shinji Tanino, Honda Engineering Co, Ltd



10.45 h ☕ **Coffee & contacts**

11.15 h **Revolution in final assembly through flexible cell production**
Tobias Herwig, IPO.Plan GmbH, DE

11.45 h **Pluggable busbar system for flexible energy supply at assembly workstations**
N.N., BMW Group, DE; Paul Dick, eepos GmbH, DE

12.15 h 🍴 **Lunch break**

NEW TECHNOLOGIES FROM THE SMART FACTORY

14.15 h **Human-robot-collaboration in final assembly: Challenges and solutions**
Johannes Kurth, Kuka Systems GmbH, DE

14.45 h **ColRobot: Collaborative Robotics for Assembly and Kitting in Smart Manufacturing**
Gabriel Audry, Renault S.A.S., Olivier GIBARU, Arts et Métiers Paristech, FR

15.15 h **Versatile and customized automation in the automotive assembly shown on the example of human-robot cooperation in underbody assembly**
Matthias Scholer, Prof. Rainer Müller, ZeMA gGmbH, DE

15.45 h ☕ **Coffee & contacts**

16.15 h **Information systems for industry 4.0 processes**
Gerhard Eichner, DE Group, DE

16.45 h **Human centric assembly validation – The Operator 4.0**
Andre Rückert, ESI Software Germany GmbH, DE

17.15 h **End of conference day 1**

18.30 h 👥 **Networking Night at z.w.o. Tapas Bar**

WEDNESDAY, 20 FEBRUARY 2019

NEW TECHNOLOGIES FROM THE SMART FACTORY

8.30 h **Ford Cologne Plant goes VIRTUAL! The secret behind a successful transformation of an assembly plant with 1000 people**
Sara Gielen, Ford-Werke GmbH, DE



9.00 h **Virtual commissioning at BMW: An effective method and its challenges for an efficient and comprehensive use of digital twins**
Martin Langosch, Markus Baumann, BMW Group, DE



9.30 h **Work efficiency with wireless technology in vehicle performance line**
Naoya Yukimoto, Toyota Motor Corporation, JP; Le Khoa Nguyen, Toyota Motor Europe, GB



10.00 h **Maturity level models for the evaluation of the digitalization progress of assembly-intensive production processes**
Prof. Dr. Tobias Kaupp, Hochschule für angewandte Wissenschaften Würzburg-Schweinfurt, DE

10.30 h ☕ **Coffee & contacts**

CYBER SECURITY

11.00 h **Risk analysis and threat analysis – the starting point of an effective security concept**
Dr. Joachim Leder, KnüvenerMackert GmbH, DE

11.30 h **The role of industrial robots in smart manufacturing: risks, vulnerabilities, and threats**
Dr. Federico Maggi, Trend Micro GmbH, DE

→ INCL LIVE DEMONSTRATION!

12.00 h Assessing manufacturing plants' vulnerability and protecting them against cyber attacks

Emmanuel Ifrah, Segula, FR; Yehonatan Kfir, Radiflow

HUMAN RESOURCES – THE ASSEMBLY WORKER

12.45 h Ergonomics strategy at Volkswagen Nutzfahrzeuge

Uwe Hüter, Volkswagen Nutzfahrzeuge, DE



13.15 h Lunch break

14.15 h BESTOWAL OF THE ASSEMBLY ENGINEERING INNOVATION AWARD 2019

International Advisory OEM Board and Katharina Roeder, Automotive Circle, DE



14.30 h Digital assembly planning for people with restricted abilities at Volkswagen Cityskater Project

Prof. Dr. Lars Fritzsche, imk automotive GmbH, DE; Marcus Kunz, Volkswagen Sachsen GmbH, DE

15.00 h Autonomous knowledge-based personalisation of work instructions and their relevance for production management

Felix Riedel, Hochschule Bremen, DE

15.30 h Conclusion and farewell

International Advisory OEM Board and Katharina Roeder, Automotive Circle, DE

15.45 h End of conference



Subject to change (status as of 16 January 2019)

**Programme updates at:
www.automotive-circle.com**

EXHIBITION AND SPONSORING NETWORKING FOR YOUR SUCCESS

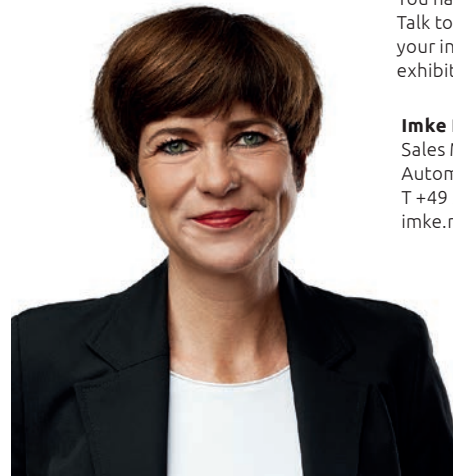
As an exhibitor/sponsor, you can benefit on-site from the technical and personal exchange of ideas and experiences with specialists in the automotive industry.

Thus, you can

- ▶ increase clearly the visibility of your company
- ▶ expand your contacts with decision makers
- ▶ boost your brand awareness with the OEMs

The accompanying exhibition as well as the attractive sponsorship opportunities provide the ideal platform for your presence.

Decide for an exhibition package, including a full conference ticket, or place your advertisement on the lanyards, conference booklets, USB cards or pens & pads.



You have a concrete idea yourself? Talk to me, we will be happy to develop your individual appearance as an exhibitor/sponsor at the conference.

Imke Rotermund
Sales Manager
Automotive Circle
T +49 511 9910-343
imke.rotermund@vincentz.net

TERMS & CONDITIONS

REGISTRATION PROCEDURES

Vincenz Network GmbH & Co. KG
Automotive Circle
Plathnerstr. 4c, DE-30175 Hannover
T +49 511 99 10-383, F +49 511 99 10-379
mareike.baeumlein@vincenz.net

ONLINE REGISTRATION

www.automotive-circle.com

DATE AND VENUE

19 – 20 February 2019

Hotel Dolce Bad Nauheim
Elvis-Presley-Platz 1
DE-61231 Bad Nauheim
T +49 6032 303-0, F +49 6032 303-529
www.dolcebadnauheim.com
info@dolcebadnauheim.com

We kindly ask you to make your own hotel reservation at the conference hotel, please refer to Automotive Circle. The hotel offers special room rates from 139,- € to 159,- € depending on different cancellation conditions. The mentioned room rates include 5,- € breakfast per person and per day.

CONFERENCE FEES

Early bird: 1.725,- €*
Standard: 1.825,- €*

Early bird price available until 18 January 2019. Students will get 50 % discount on standard prices on presentation of a valid student ID.

* All prices plus 19 % German VAT. All conferences in Europe are subject to VAT. To reclaim, please contact your local tax office.

CONFERENCE FEES INCLUDE

Fees including full conference participation, incl. list of delegates and the authority for downloading the presentation on the internet, luncheons, catering and the participation in the evening networking event.

CONFERENCE LANGUAGE

The conference will be translated simultaneously into English and German. Please note that the contents of lectures and presentations at simultaneously interpreted conferences are predominately composed in the English language.

CANCELLATIONS

Fees will be refunded in full if notice of cancellation is received by 18 January 2019. 50 % of the conference fees will be refunded in case notification of cancellation is received later, but not later than 4 February 2019.

Delegates who fail to attend without notifying the organiser will be liable for the whole conference fees. Substitutions of delegates may be made at any time. Cancellations and changes should be notified in writing. In all cases date of postmark shall apply. Any fees to be refunded will be paid after the end of the conference. The organiser reserves the right to change the programme content or to cancel the event due to important reasons. Cancellation fees of third parties that may appear in this context will not be reimbursed.

DATA PROTECTION

Vincenz Network produces a list of delegates for each event which may include the following information: company name, address (zip code, city, country), name and job function of delegate. This list of delegates will be made available for all conference delegates, speakers, exhibitors and sponsors of the event, who may use the data for promotional purposes. Objection against publication and circulation of this data may be made at any time until 3 weeks prior to the event and has to be made in writing to the organiser. Company's name, city and country might be published on the internet as reference for upcoming Automotive Circle conferences.

PLEASE NOTE

By registering you understand that your participation and attendance at the conference may be videotaped, filmed and/or audio recorded. You agree that the recording may be used for any lawful purposes that Vincenz Network, or its designees, in their sole discretion, may determine. The address data are processed for customer service and information purposes in compliance with the German Federal Data Protection Law. Company's name, city and country might be published on the Internet as reference for the upcoming conferences of Automotive Circle.

PICTURES

Vincenz Network, ZeMA gGmbH

REGISTRATION

ASSEMBLY ENGINEERING 2019

Hereby I register for:

- CONFERENCE** 19 – 20 February 2019
Early bird: 1.725,- €* (until 18 January 2019)
Standard: 1.825,- €*

..... Title First Name
..... Name	
..... E-Mail	
..... Phone	
..... Company	
..... Department Function
..... Street	
..... Zip Code/City	
..... Country	
..... Order No.	

METHOD OF PAYMENT

- Credit Card**
 American Express Mastercard Visa

..... Card Holder Expiry Date
..... Card Number Verification Code

- Yes, I want to be informed about future Vincenz Network events and products via e-mail.**

.....
Date, Signature

www.automotive-circle.com/mail to: info@automotive-circle.com

YOUR CONTACT

Mareike Baeumlein

Senior Event Manager/Automotive Circle

T +49 511 9910-383

mareike.baeumlein@vincenz.net





REGISTER
NOW

**Register until 18 JANUARY 2019 and
benefit from the early bird!**

Vincenz Network GmbH & Co. KG
Automotive Circle
Plathnerstr. 4c // DE-30175 Hannover

