Program Brochure

November 13th – November 15th, 2019

Beijing Marriott Hotel Northeast, China

From Germany to China
AUTOMATED DRIVING
IN NEED OF NATURALISTIC VEHICLE TRAJECTORIES?

110,000 vehicles recorded on German highways - and much more to come.

Extremely high data and scenario quality in combination with cutting edge deep learning algorithms.

Information at:
www.fka.de/highDplus
We, the organizing team of the famous Aachen Colloquium Automobile and Engine Technology in Germany, will continue to organize the Aachen Colloquium China in Beijing. It takes place for the ninth time this year. We invite you to listen to our speakers from all over the world, get in contact with experts at the technical exhibition and join us for a jolly banquet with a surprise waiting for you. Do not miss this chance to meet us at an event full of technical innovations and exciting discussions. We are looking forward to seeing you in Beijing!

作为德国知名的亚琛汽车和发动机技术年会的主办方,我们将继续在北京组织中国亚琛年会。今年,我们非常荣幸地邀请您参加第九届中国亚琛年会,分享来自全球专家的演讲,在技术展览上与专家零距离交流,参与愉快的晚宴,并有惊喜等待您。请不要错过此次与业内顶尖人士共同探讨技术创新的良机,期待与您相逢于北京!
ELECTRIC VEHICLE (EV) DEVELOPMENT
FEV is your right development partner for light and smart electric vehicles. Our impressive track record includes e-powertrain and EV development from concept to SOP and any step in between.

CONNECTIVITY AND INFOTAINMENT
Decades of experience make FEV a unique turnkey partner for the development of connected vehicles. Our added value engineering is based on FEV’s know-how of the entire end-to-end ecosystem.

AUTOMATED DRIVING
Thanks to extensive experience, powerful tools, and access to fully equipped testing environments, FEV offers premium services for end-to-end system design, integration and validation of advanced driver assistance systems and autonomous driving.

FEV Beijing Vehicle Development Center / FEV北京整车研发中心
> Vehicle / 整车开发
> eDrive / 电驱动
> Battery / 电池
> xCU Solutions / xCU解决方案
> Smart features / 智能化
> Fuel Cell / 燃料电池
# Conference Agenda

## Wednesday, November 13th, 2019

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>18:00</td>
<td>Meet &amp; Greet</td>
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</table>

## Thursday, November 14th, 2019

### Grand Ballroom II+III

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
</tr>
</thead>
<tbody>
<tr>
<td>08:30</td>
<td>Opening Plenary Session</td>
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<tr>
<td>10:00</td>
<td>Coffee Break</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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<tbody>
<tr>
<td>10:30</td>
<td>High Efficiency Engines</td>
</tr>
<tr>
<td>12:00</td>
<td>Lunch</td>
</tr>
<tr>
<td>13:30</td>
<td>Fuel Cell Systems &amp; Batteries</td>
</tr>
<tr>
<td>15:30</td>
<td>Coffee Break</td>
</tr>
<tr>
<td>16:00</td>
<td>Hybrid Powertrains</td>
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<tr>
<td>18:00</td>
<td>Banquet</td>
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### Grand Ballroom I

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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<tbody>
<tr>
<td>10:00</td>
<td>Mobility &amp; Vehicle Concepts</td>
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<tr>
<td>13:30</td>
<td>Automotive Strategy</td>
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<tr>
<td>15:30</td>
<td>HMI &amp; Driver Assistance</td>
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## Friday, November 15th, 2019

### Grand Ballroom II+III

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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<tbody>
<tr>
<td>08:30</td>
<td>Power Electronics &amp; Hybrid Transmission</td>
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<tr>
<td>10:00</td>
<td>Coffee Break</td>
</tr>
<tr>
<td>10:30</td>
<td>Automated Driving</td>
</tr>
<tr>
<td>12:30</td>
<td>Lunch</td>
</tr>
<tr>
<td>14:00</td>
<td>Hybrid &amp; REX Powertrains</td>
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### Grand Ballroom I

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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<tbody>
<tr>
<td>10:00</td>
<td>Engine Technologies</td>
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<tr>
<td>11:00</td>
<td>Emission Concepts &amp; PEMS</td>
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<tr>
<td>12:30</td>
<td>Thermal Management</td>
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### Grand Ballroom II+III

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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<tr>
<td>15:30</td>
<td>Final Remarks</td>
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周三，2019年11月13日

**Exhibition in the Foyer**

18:00 欢迎酒会

周四，2019年11月14日

**Grand Ballroom II+III**

Session

08:30 开幕致辞

10:00 茶歇

**Grand Ballroom II+III**

Session

10:30 高效率发动机

12:00 午餐

13:30 出行&汽车概念

15:30 茶歇

16:00 混合动力总成

18:00 晚宴

**Grand Ballroom I**

Session

10:30 出行&汽车概念

12:00 午餐

13:30 汽车行业战略

15:30 茶歇

16:00 人机界面和驾驶员辅助

周五，2019年11月15日

**Grand Ballroom II+III**

Session

08:30 电力电子与混合动力传动

10:00 茶歇

10:30 自动驾驶

12:30 午餐

14:00 混动和增程器动力总成

**Grand Ballroom I**

Session

08:30 发动机技术

10:00 茶歇

10:30 排放概念和车载尾气检测设备

12:30 午餐

14:00 热管理

**Grand Ballroom II+III**

Session

15:30 结束语
In the year 1984, Mr. Ichiro Hirose started his career with Mazda Motor Corporation and continually expanding it over the following years. In 2009, he became General Manager of the Engine Design Engineering department. Mr. Hirose was announced Vice President of Mazda Motor Europe GmbH in April 2012, and became Executive Officer and General Manager of the Powertrain Development Department of Mazda Motor Corporation when returned to Japan in 2015. Since April 2019 Mr. Hirose has held the position of Senior Managing Executive Officer oversight of R&D and cost innovation at the Mazda Motor Corporation in Japan.

广濑一郎先生于1984年开始在马自达株式会社工作，并在接下来的几年持续扩展其职业生涯。2009年荣升为发动机设计工程部门总经理。广濑先生于2012年4月被任命为马自达发动机欧洲公司的副总裁，并于2015年返回日本担任马自达株式会社的动力总成开发部门执行总裁和总经理。广濑先生自2019年4月在日本马自达株式会社担任资深执行总裁，负责研发与成本创新。

**Information for Registration 2019**
注册参加2019年年会

[www.acc-china.net](http://www.acc-china.net)

To simplify the registration for participants located in China, the Chinese registration site is hosted locally. 为了简化中国参会者的注册，现开通了中文注册网站

www.aachen-colloquium-china.com

Register online via the event website 通过活动网站在线注册
Michael Wong has joined Volvo Cars since 2016 and is currently head of Vehicle Propulsion Unit within Volvo China R&D. His unit responsibilities include both traditional ICE powertrains as well as new energy electrified propulsion systems. He is leading the team to undergo the challenges of electrification transformation as well as organizational Agile transformation. Michael has over 20 years’ working experience in the Automotive industry including his time in Ford Motor Company and Cummins. He has held a variety of roles in product development, manufacturing, product strategy, and vehicle integration. Michael has worked in various locations in UK, Germany, Belgium, Sweden, Japan and China. He has worked on several cross OEM joint co-operation and shared platform projects, and has led projects in both passenger car and commercial vehicle applications.
Lilly Feng is the Regional Business Leader Automotive in Asia at Microsoft. In this role she drives business performance and a strong cross-group and cross-countries collaboration. Prior to joining Microsoft, Ms. Feng worked at Gartner Inc. where she provided digital and strategic advisory. She has extensive experience working in the automobile industry in varied technical and leadership roles in US and China. Among these were the lead of Volvo Cars APAC IT connected car, innovation, strategy & business development and consumer digital products from 2015 to 2018, head of Volvo Cars China IT from 2010 to 2015, as well as IT and Global Release Manager at Ford Motor Company from 2000 to 2010. Prior, she gained experience as software engineer and information specialist. She received an MSEE degree from Purdue University in 1993 and an MBA degree from Indiana University in 2000.
Grand Ballroom II+III

Time  Plenary Session

08:30  Opening Speech
Univ.-Prof. Dr.-Ing. Lutz Eckstein
Head of ika – RWTH Aachen University
Univ.-Prof. Dr.-Ing. Stefan Pischinger
Head of VKA – RWTH Aachen University

08:40  Our Way Toward the Ideal Internal Combustion Engine for Sustainable Future
Ichiro Hirose
Senior Managing Executive Officer
Mazda Motor Corporation

09:00  The New Volvo Hybrid Engine Architecture
Michael Wong
Head of Vehicle Propulsion – Volvo Car Asia Pacific

09:20  Empowering the Automotive Industry: Driving the Future of Mobility
Lilly Feng
Regional Business Leader, Automotive – Microsoft

09:40  Joint Discussion

10:00  Coffee Break

Time  High Efficiency Engines

10:30  DFMB18T Turbocharged Miller-Cycle Engine from Dongfeng Liuzhou Motor
Z. Li, K. Yao – Dongfeng Liuzhou Motor Co., Ltd.
C. Dieterich – FEV Europe GmbH

11:00  Stepcom® – 2 Step Variable Compression Ratio System Integration & Industrialization
S. Schilling, M. Poepperl, D. Schulze – Hilite Germany GmbH
D. Henaux, K. Habermann, T. Uhlmann – FEV Europe GmbH

11:30  Highly Efficient SI Engine Combining VCR and VVA
M. Breuer, T. Schorn – Pierburg GmbH
J. Fryjan, A. Schloßhauer – VKA, RWTH Aachen University
K. Habermann, T. Uhlmann – FEV Europe GmbH

12:00  Lunch
<table>
<thead>
<tr>
<th>Time</th>
<th>Mobility &amp; Vehicle Concepts</th>
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</table>
| 10:30 | **New Vehicle Concepts for Mobile Vacation**  
R. Freimann – Erwin Hymer Group SE  
J. Zhang – Luoyang Erwin Hymer Loncen Caravan Co. Ltd.  
G. Gumpoltsberger, U. Gillich – ZF Friedrichshafen AG  
R. Kaiser – TTT The Team Technology |
| 11:00 | **How Will We Travel Autonomously? User Needs for Interior Concepts and Requirements Towards Occupant Safety**  
F. Prinz, A.-L. Köhler, L. Wang, J. Becker, G. M. I. Voß, S. Ladwig, L. Eckstein  
i – ika, RWTH Aachen University  
T. Schulte, N. Depner – fka GmbH |
| 11:30 | **Urban Vehicle Concept for Shared Mobility**  
M. Hog, M. Volm – Share2Drive GmbH  
L. Cheng – FEV Vehicle GmbH |
| 12:00 | Lunch |
## Grand Ballroom II+III

<table>
<thead>
<tr>
<th>时间</th>
<th>主旨演讲</th>
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<tbody>
<tr>
<td>08:30</td>
<td>开幕致词</td>
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<tr>
<td>08:40</td>
<td>走向理想内燃机可持续发展的未来之路</td>
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<tr>
<td>09:00</td>
<td>沃尔沃汽车全新一代48V轻混发动机平台</td>
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<tr>
<td>09:20</td>
<td>赋予汽车业权力：推动未来出行</td>
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<tr>
<td>09:40</td>
<td>专家讨论</td>
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<td>10:00</td>
<td>茶歇</td>
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<tr>
<td>10:30</td>
<td>高效率发动机</td>
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<tr>
<td>11:00</td>
<td>Stepcom® - 2段可变压缩比发动机系统集成与产业化</td>
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<tr>
<td>11:30</td>
<td>结合可变压缩比和可变气门驱动的高效点燃式发动机</td>
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<tr>
<td>12:00</td>
<td>午餐</td>
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会议活动安排，2019年11月14日

2018第八中国亚琛年会

Grand Ballroom I

时间 出行&汽车概念

10:30 假期出行的新车概念
R. Freimann – Erwin Hymer Group SE
J. Zhang – Luoyang Erwin Hymer Loncen Caravan Co. Ltd.
G. Gumpoltsberger, U. Gillich – ZF Friedrichshafen AG
R. Kaiser – TTT The Team Technology

11:00 我们将如何藉由自动驾驶旅行？用户需求的内部概念和对乘员安全之要求
F. Prinz, A.-L. Köhler, L. Wang, J. Becker, G. M. I. Voß,
S. Ladwig, L. Eckstein
– ika, RWTH Aachen University
T. Schulte, N. Depner – fka GmbH

11:30 共享出行的城市车辆概念
M. Hog, M. Volm – Share2Drive GmbH
L. Cheng – FEV Vehicle GmbH

12:00 午餐
Program, November 14th, 2019

Grand Ballroom II+III

Time  Fuel Cell Systems & Batteries

13:30  Agile Development of a Modular Toolbox for HV Battery Housings  
L. Eckstein – ika, RWTH Aachen University  
K. Radlmayr, A. Tuksa – voestalpine AG  
M. Bartmann, M. Funke, N. Neumann – fka GmbH  

14:00  Fuel Cell Range Extender EV  
Y. Jiang – Chongqing Jinkang New Energy Automobile Designing Institute Co., Ltd.

14:30  AVL PEM Fuel Cell Concept Car  
W. Resende, J. Rechberger, A. Schenk, F. Berg  
– AVL List GmbH

15:00  Fuel Cell Systems for Heavy Duty Applications: From Concept to System Validation  
M. Walters – FEV Europe GmbH  
S. Dirkes – VKA, RWTH Aachen University  
J. Buchmann – FEV Consulting, Inc.

15:30  Coffee Break

Time  Hybrid Powertrains

16:00  HAIMA BOOST BLUE Electrified Strategy of Haima  
H. W. Zhang – Haima Automobile Co., Ltd.

16:30  Silent, Cheap and Compact: the Future of ICEs as Range Extenders  
T. Uhlmann, S. Pischinger, M. Thewes, J. Scharf, A. Balazs,  
– FEV Europe GmbH

17:00  Energy Cost Based Hybrid Control and Analysis Technique  
M. Gong, J. Shutty, D. Semenov, S. Mohon, N. Kondipati,  
X. Liu – BorgWarner, Inc.  
X. Zhang – Changan

18:00  Banquet
Program, November 14th, 2019

Grand Ballroom I

Time: Automotive Strategy

13:30 Connected & Automated Vehicles as Part of the IoT - Opportunities, Challenges and Implications for the Industry
C.-S. Ernst, W. Bernhart, M. Yoon – Roland Berger GmbH

14:00 Urban Air Mobility – A Potential Market Opportunity for the Automotive Industry

14:30 The Future of Automotive E/E Architecture and its Effect on Processes and Organization
C. Foltz, M. Gloger, T. Schadt, A. Wild – PwC Strategy& (Germany) GmbH

15:00 Optimization of Tier-X Product Portfolio Strategies with a Focus on Future CO₂ Targets
L. Eckstein – ika, RWTH Aachen University
N. Neumann, C. Harter, A. Busse – fka GmbH

15:30 Coffee Break

Time: HMI & Driver Assistance

16:00 (Thermal) Comfort and its Specific Influencing Factors
F. Prinz, T. Hirn, G. M. I. Voß, A. Kirmas, D. Backes, S. Ladwig – ika, RWTH Aachen University
A. Gentner, C. Favart – Toyota Motor Europe

16:30 Nonobtrusive Methods for Physiological Driver and Passenger State Estimation
S. Leonhardt – MedIT, RWTH Aachen University

17:00 Innovative Driving Assistance Function for Safe Completion of Overtaking Maneuver
Z. Vana – Valeo

18:00 Banquet
<table>
<thead>
<tr>
<th>时间</th>
<th>活动内容</th>
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<tbody>
<tr>
<td>14:00</td>
<td>增程式燃料电池新能源汽车&lt;br&gt;Y. Jiang – Chongqing Jinkang New Energy Automobile Designing Institute Co., Ltd.</td>
</tr>
<tr>
<td>14:30</td>
<td>AVL 聚合物电解质膜燃料电池概念车&lt;br&gt;W. Resende, J. Rechberger, F. Berg – AVL List GmbH</td>
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<tr>
<td>15:00</td>
<td>用于重载车应用的燃料电池系统：从概念到系统验证&lt;br&gt;M. Walters – FEV Europe GmbH&lt;br&gt;S. Dirkes – VKA, RWTH Aachen University&lt;br&gt;J. Buchmann – FEV Consulting, Inc.</td>
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<tr>
<td>15:30</td>
<td>茶歇</td>
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<tr>
<td>16:00</td>
<td>海马深蓝动力 - 海马电气化战略&lt;br&gt;H. W. Zhang – Haima Automobile Co., Ltd.</td>
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<tr>
<td>17:00</td>
<td>基于能量成本的混合控制与分析技术&lt;br&gt;M. Gong, J. Shutty, D. Semenov, S. Mohon, N. Kondipati, X. Liu – BorgWarner, Inc.&lt;br&gt;X. Zhang – Changan</td>
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<td>18:00</td>
<td>晚宴</td>
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Grand Ballroom I

Time 汽车行业战略

13:30 互联网车和和自驾车作为车联网的一部分 - 机遇，挑战和对行业的影响
C.-S. Ernst, W. Bernhart, M. Yoon – Roland Berger GmbH

14:00 城市空中出行 - 汽车行业的潜在市场机会

14:30 汽车电气/电子的未来及其对流程和组织的影响
C. Foltz, M. Gloger, T. Schadt, A. Wild – PwC Strategy& (Germany) GmbH

15:00 优化X阶供货商产品组合战略，关注未来的二氧化碳目标
L. Eckstein – ika, RWTH Aachen University
N. Neumann, C. Harter, A. Busse – fka GmbH

15:30 茶歇

时间 人机界面和驾驶员辅助

16:00 (热) 舒适性及其特定影响因素
F. Prinz, T. Hirn, G. M. I. Voß, A. Kirmas, D. Backes, S. Ladwig
– ika, RWTH Aachen University
A. Gentner, C. Favart – Toyota Motor Europe

16:30 驾驶员和乘客生理状态估计的非显着方法
S. Leonhardt – MedIT, RWTH Aachen University

17:00 安全完整超车机动的创新驾驶辅助功能
Z. Vana – Valeo

18:00 晚宴
<table>
<thead>
<tr>
<th>Time</th>
<th>Grand Ballroom II+III</th>
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</table>
| 08:30 | **High Power Density Power Electronics for HEV/EV Applications**  
X. Xu, P. Farah, H. Husted, M. Hayes, R. Campbell, R. Ravas  
– Delphi Technologies |
| 09:00 | **Dynamic Performance of a Dedicated Hybrid Transmission Using a MAGSPLIT Device**  
S. Calverly, J. Birchall, G. Oshin – Magnomatics Ltd.  
A. Chapman – Changan Automotive UK  
K. Huang, K. Atallah – University of Sheffield |
| 09:30 | **A New P2 Hybrid 7DCT Design with Integrated Off-Axis E-Machine**  
S. Faid, A. Serrarens, R. van Druten, D. Kok  
– Punch Powertrain Nederland B.V. |

10:00  Coffee Break

<table>
<thead>
<tr>
<th>Time</th>
<th>Automated Driving</th>
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</table>
| 10:30 | **AI Based Method of Precise Trajectory Extraction from Imprecise Open Road Data**  
Z. Vana, J. Olišna, M. Zima, C. Lobo-Castillo, P. Jiroutek  
– Valeo Autoklimatizace k.s. |
| 11:00 | **Safety First for Automated Driving**  
Y. Wang – Baidu |
| 11:30 | **State of Research on Data-Driven Safety Assurance Methods and How Drones Can Aid it**  
L. Eckstein, R. Krajewski, N. Wagener, H. Weber, J. Bock  
– ika, RWTH Aachen University  
A. Zlocki – fka GmbH |
| 12:00 | **The Development of Data Fusing Domain Controller for Jinkang Seres Autonomous Drive**  
J. Gao – JinKang Seres |

12:30  Lunch
Program, November 15th, 2019

Grand Ballroom I

Time  Engine Technologies

08:30  Advances in Dynamic Skip Fire: mDSF and dDSF
       Y. Xin, K. Chen, S. Carlson, E. Ortiz-Soto, M. Younkins
       – Tula Technology, Inc.
       M. Scassa, M. Nencioni, S. George – FEV Italisa S.r.l.

09:00  Water Injection Technology Made Available for
       All Driving Conditions
       J. Op de Beeck, L. Duez – Plastic Omnium Clean Energy Systems

09:30  Testing of a New Gasoline Compression Ignition (GCI) Concept
       on Market-Relevant Fuels
       R. Cracknell – Shell Global Solutions UK

10:00  Coffee Break

Time  Emission Concepts & PEMS

10:30  A Study of Ash Accumulation on Gasoline Particulate Filter
       Through On-Road Fleet Durability Testing
       Z. Lv, W. Li, X. Zeng, Q. He, S. He, D. Rose, T. Boger
       – Corning (Shanghai) Regional Headquarters
       R. Zhang, H. Zou, C. M. Ang – Lubrizol Management (Shanghai) Co. Ltd.

11:00  Lowest Real Driving Emissions: Solutions for Electrified Gasoline
       Engines
       Q. Ye – Vitesco Technologies
       S. Seifert, R. Brück, H. Stock – Continental Emitec GmbH
       G. Rösel, E. Achleitner, F. Graf, P. Rodatz, P. Senft – CPT Group GmbH

11:30  Zero-Impact Combustion Engine
       – FEV Europe GmbH
       S. Sterlepper, T. Voßhall – VKA, RWTH Aachen University

12:00  Study of Artificial Test Cycles for HD PEMS Test
       X. Zhao, Y. Yang, F. Jiang, H. Du
       – Wuxi Wolflu Automotive Technology Co., Ltd.

12:30  Lunch
会议活动安排，2019年11月15日

Grand Ballroom II+III

<table>
<thead>
<tr>
<th>时间</th>
<th>电力电子与混合动力传动</th>
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<tbody>
<tr>
<td>08:30</td>
<td>用于混动车/纯电动车应用的高功率密度电力电子设备</td>
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<td></td>
<td>X. Xu, P. Farah, H. Husted, M. Hayes, R. Campbell, R. Ravas</td>
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<tr>
<td></td>
<td>– Delphi Technologies</td>
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<tr>
<td>09:00</td>
<td>使用MAGSPLIT设备的专用混动变速箱的动态性能</td>
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<td>S. Calverly – Magnomatics Ltd.</td>
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<tr>
<td>09:30</td>
<td>具有集成式离轴电机的新P2型混动7DCT设计</td>
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<tr>
<td></td>
<td>S. Faid, A. Serrarens, R. van Druten, D. Kok</td>
</tr>
<tr>
<td></td>
<td>– Punch Powertrain Nederland B.V.</td>
</tr>
<tr>
<td>10:00</td>
<td>茶歇</td>
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</tbody>
</table>

时间  自动驾驶

<table>
<thead>
<tr>
<th>时间</th>
<th>基于人工智能的精确开放道路数据精确轨迹提取方法</th>
</tr>
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<tbody>
<tr>
<td>10:30</td>
<td>Z. Vana, J. Olišna, M. Zima, C. Lobo-Castillo, P. Jiroutek</td>
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<tr>
<td></td>
<td>– Valeo Autoklimatizace k.s.</td>
</tr>
<tr>
<td>11:00</td>
<td>自动驾驶的安全导览</td>
</tr>
<tr>
<td></td>
<td>Y. Wang – Baidu</td>
</tr>
<tr>
<td>11:30</td>
<td>关于数据驱动的安全保障方法以及无人机如何辅助其的研究状况</td>
</tr>
<tr>
<td></td>
<td>L. Eckstein, R. Krajewski, N. Wagener, H. Weber, J. Bock</td>
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<tr>
<td></td>
<td>– ika, RWTH Aachen University</td>
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<tr>
<td></td>
<td>A. Zlocki – fka GmbH</td>
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<tr>
<td>12:00</td>
<td>金康汽车数据融合自动驾驶域控制器的研发</td>
</tr>
<tr>
<td></td>
<td>J. Gao – JinKang Seres</td>
</tr>
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<td>12:30</td>
<td>午餐</td>
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</tbody>
</table>

20
# 会议活动安排，2019年11月15日

## Grand Ballroom I

### 时间

<table>
<thead>
<tr>
<th>时间</th>
<th>发动机技术</th>
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<tbody>
<tr>
<td>08:30</td>
<td>动态跳跃点火的进展：mDSF和dDSF</td>
</tr>
<tr>
<td>09:00</td>
<td>适应全驾驶工况的喷水技术</td>
</tr>
<tr>
<td>09:30</td>
<td>在市场相关燃料新型汽油压缩点火(GCI)概念之测试</td>
</tr>
<tr>
<td>10:00</td>
<td>茶歇</td>
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<tr>
<td>10:30</td>
<td>排放概念和车载尾气检测设备</td>
</tr>
<tr>
<td>11:00</td>
<td>最低的实际驾驶排放：电气化汽油发动机的解决方案</td>
</tr>
<tr>
<td>11:30</td>
<td>零影响排放内燃机</td>
</tr>
<tr>
<td>12:00</td>
<td>重载车的尾气检测设备测试的人工测试循环研究</td>
</tr>
<tr>
<td>12:30</td>
<td>午餐</td>
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</tbody>
</table>

### 08:30 动态跳跃点火的进展：mDSF和dDSF

M. Scassa, M. Nencioni, S. George – FEV Italisa S.r.l.

### 09:00 适应全驾驶工况的喷水技术

J. Op de Beeck, K. Zang, L. Duez – Plastic Omnium Clean Energy Systems

### 09:30 在市场相关燃料新型汽油压缩点火(GCI)概念之测试

R. Cracknell – Shell Global Solutions UK
Program, November 15th, 2019

Grand Ballroom II+III

Time

14:00 Hybrid & REX Powertrains

MAHLE Modular Hybrid Powertrain
M. Bassett, I. Reynolds, A. Cooper, S. Reader, M. Berger
- MAHLE Powertrain

SYTECH, a Low Cost Unique Solution for Modern Range Extenders
R. Tamba, G. Fountain, M. Kavernos, J. Psonis
- ASF Technologies Australia Pty Ltd.

Development of a HEV Powertrain for Global Application
S. Li – Geely Powertrain Research Institute
H. Sandquist, S. Klacar – China Euro Vehicle Technology

15:30 Final Remarks: Prof. S. Pischinger, Prof. L. Eckstein

15:40 End of Conference

Audience’s Questions, 8th Aachen Colloquium China
<table>
<thead>
<tr>
<th>Time</th>
<th>Thermal Management</th>
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</thead>
<tbody>
<tr>
<td>14:00</td>
<td><strong>Holistic Thermal Management for New Energy Vehicles</strong></td>
</tr>
<tr>
<td></td>
<td>C. M. Moeser, M. Flack, T. Werner</td>
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<tr>
<td></td>
<td>– Schaeffler Technologies AG &amp; Co. KG</td>
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<tr>
<td></td>
<td>T. Tang, O. Weber – Schaeffler Trading (Shanghai) Co., Ltd.</td>
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<tr>
<td>14:30</td>
<td><strong>Potential of IR-based Driver Monitoring and Comfort Automation</strong></td>
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<tr>
<td></td>
<td>T. Hrn – ika, RWTH Aachen University</td>
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<tr>
<td></td>
<td>S. Boeshagen – BCS Automotive Interface Solutions GmbH</td>
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<tr>
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<td>A. Kirmas, D. Backes – fka GmbH</td>
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<tr>
<td></td>
<td>C. Weiss – Life TAx GmbH</td>
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<tr>
<td>15:00</td>
<td><strong>Functionally Integrated Thermal Management Systems for Battery Housings – Requirements and Proposed Solutions</strong></td>
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<tr>
<td></td>
<td>T. Hrn, C. Massonet – ika, RWTH Aachen University</td>
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<td></td>
<td>M. Wiemann – voestalpine Automotive Components Schwäbisch Gmünd GmbH &amp; Co. KG</td>
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<td>N. Neumann, M. Funcke – fka GmbH</td>
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## 第八中国亚琛年会技术演讲

<table>
<thead>
<tr>
<th>时间</th>
<th>内容</th>
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<tbody>
<tr>
<td>14:00</td>
<td>马勒混合动力总成模块&lt;br&gt;<strong>M. Bassett, I. Reynolds, A. Cooper, S. Reader, M. Berger</strong>&lt;br&gt;– MAHLE Powertrain</td>
</tr>
<tr>
<td>14:30</td>
<td>SYTECH，现代增程器的低成本独特解决方案&lt;br&gt;<strong>R. Tamba, G. Fountain, M. Kaavernos, J. Psonis</strong>&lt;br&gt;– ASF Technologies Australia Pty Ltd.</td>
</tr>
<tr>
<td>15:00</td>
<td>用于全球应用的混动车动力总成之开发&lt;br&gt;<strong>S. Li</strong> – Geely Powertrain Research Institute&lt;br&gt;<strong>H. Sandquist, S. Klacar</strong> – China Euro Vehicle Technology</td>
</tr>
</tbody>
</table>

### 会议结束语
Prof. S. Pischinger, Prof. L. Eckstein

### 会议结束
### Grand Ballroom I

<table>
<thead>
<tr>
<th>时间</th>
<th>热管理</th>
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<tbody>
<tr>
<td>14:00</td>
<td>新能源汽车的整体热管理</td>
</tr>
<tr>
<td></td>
<td>C. M. Moeser, M. Flack, T. Werner</td>
</tr>
<tr>
<td></td>
<td>– Schaeffler Technologies AG &amp; Co. KG</td>
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<tr>
<td></td>
<td>T. Tang, O. Weber – Schaeffler Trading (Shanghai) Co., Ltd.</td>
</tr>
<tr>
<td>14:30</td>
<td>红外线驾驶监控和舒适的自动化潜力</td>
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<td></td>
<td>T. Hirn – ika, RWTH Aachen University</td>
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<tr>
<td></td>
<td>S. Boeshagen – BCS Automotive Interface Solutions GmbH</td>
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<td>A. Kirmas, D. Backes – fka GmbH</td>
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<tr>
<td></td>
<td>C. Weiss – Life TAix GmbH</td>
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<tr>
<td>15:00</td>
<td>电池外壳的功能集成热管理系统 – 需求和建议解决方案</td>
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<td></td>
<td>T. Hirn, C. Massonet – ika, RWTH Aachen University</td>
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<td>M. Wiemann – voestalpine Automotive Components Schwäbisch Gmünd GmbH &amp; Co. KG</td>
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<td>N. Neumann, M. Funcke – fka GmbH</td>
</tr>
</tbody>
</table>
Technical Exhibition
技术展示会

Wednesday – Friday, November 13th – 15th, 2019

18:00 – 21:00        Wednesday, November 13th
周三，2019年11月13日

8:00 – 18:00        Thursday, November 14th
周四，2019年11月14日

8:00 – 16:00        Friday, November 15th
周五，2019年11月15日

Exhibition, 8th Aachen Colloquium China
第八中国亚琛年会展览

At the 9th Aachen Colloquium China an associated technical exhibition will take place inside of the Marriott Hotel Beijing. Several international companies will present and inform about the latest products and technical solutions.

第九中国亚琛汽车和发动机技术年会期间，我们将在北京海航大厦万豪酒店内举办相关的技术展览。届时将有多家国际公司参加展览，展示各自的最新产品和技术解决方案。
You are arriving in Beijing on November 13th already? From 18:00-21:00 our Meet & Greet in our exhibition offers the most pleasant start of the Aachen Colloquium China for you. Have some snacks and drinks in great company and enjoy a relaxed atmosphere.

您将于11月13日抵达北京吗？我们将于13日19时至21时在技术展示区举行欢迎酒会，本届亚琛年会将在愉悦的气氛中拉开序幕。届时将精心为您准备点心及饮品愿您度过一个轻松愉快的夜晚！
18:00  
Reception at the Hilton Hotel  
欢迎致词并举行晚宴  
Welcome and Start of the Banquet  
希尔顿酒店接待

Join us for our exclusive banquet with a surprise waiting for you and enjoy a delicious dinner. This occasion offers you the personal contact to manufacturers and suppliers. Get the most out of this unique networking opportunity.

诚邀您参加我们的特别晚宴，享用中国和德国的特色美食，并有惊喜等待您。您在晚宴上将有机会结识众多业内制造商及供应商朋友，是您扩大社交圈的最佳机会。

Banquet, 8th Aachen Colloquium China  
第八中国亚琛年会晚宴

© by Beijing Marriott Hotel Northeast, China  
北京海航大厦万豪酒店
Room Rates
The Marriott Hotel offers special rates for the Aachen Colloquium China. These rates are valid for stays from November 10th to 17th, 2019, and can be booked online.

Room Reservations / 酒店预订
Phone / 电话 + 86 10 5927 8622
Fax / 传真 + 86 10 5927 8625
E-Mail / 邮件 mhrs.bjses.arm@marriotthotels.com

Booking Link via QR-Code
How to Get There

Venue
Beijing Marriott Hotel Northeast
26A Xiao Yun Road,
Chaoyang District
100125 Beijing, China

Directions
Easily accessible from Beijing Capital Airport, the Beijing Marriott Hotel Northeast is located in the center of Beijing’s diplomatic district of Chaoyang.

Arriving at the Airport, you may take the airport shuttle bus or a taxi along the Capital Airport Expressway until you reach Sanyuanqiao, veer left and head south at 3rd Ring Road, turning left from Sanyuandongqiao onto Xiaoyn Road. The hotel is located on the right after the second set of traffic lights, at the intersection of Tianze Road and Xiaoyn Road.

If you take the Airport Express from the Beijing Capital Airport to Sanyuanqiao station, transfer to Line 10 and go south to Liangmaqiao station. The hotel complex is located 1.6 km from the station.

路径
北京海航大厦万豪酒店位于北京朝阳区外交区的中心地带，可从北京首都机场轻松抵达，地理位置十分优越。到达机场后，可乘坐机场巴士或出租车，沿首都机场高速路行驶抵达三元桥，向南上三环，出口到霄云路。酒店位于过了第二个红绿灯路口马路右侧，霄云路和天泽路交叉口处。或者从北京国际机场乘坐机场快轨到三元桥站。换乘地铁十号线到亮马桥站，酒店距地铁站1.6公里。
Beijing offers various possibilities for interesting sightseeing tours. Several highlights are worth a visit. The 21,196 km long Great Wall of China for example is one of the most famous and stunning sights in the world. You can also visit the Forbidden City, built in the 15th century in the style of traditional Chinese palace architecture. Or maybe you take a walk in the Summer Palace. It is the largest royal garden in Beijing, which integrates lakes, hills and numerous traditional halls and pavilions.

Are you interested in some sightseeing in Beijing and its surroundings? Please send us an email with your contact data and – if existent – more information about how you imagine your sightseeing program. We will provide the contact data of a qualified tour guide arranging an individual sightseeing tour for you.
General Information

Registration
We recommend to register early due to a possible limitation of participants and limited capacity in the banquet hall. The registration form as well as the terms and conditions of the Aachen Colloquium China are available on the website of the event: www.aachen-colloquium-china.com

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<table>
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<tbody>
<tr>
<td>Participation Fee</td>
<td>RMB 3880</td>
</tr>
<tr>
<td>Early Bird (payment until Sept. 30th)</td>
<td>RMB 3480</td>
</tr>
<tr>
<td>Banquet for Participants</td>
<td>free of charge</td>
</tr>
<tr>
<td>Banquet for Accompanying Persons</td>
<td>RMB 380</td>
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</tbody>
</table>

Conference Languages
The presentations will be simultaneously translated into Chinese and English. Headsets are available for free. The proceedings will be published in English.

Registration Desk
Wednesday Nov. 13th, 2019 17:00 - 19:00
Thursday Nov. 14th, 2019 07:30 - 17:15
Friday Nov. 15th, 2019 08:00 - 15:00

Hotel
The registration for the Aachen Colloquium China does not include a hotel reservation. Each participant is responsible for the booking of a room.

Conference Proceedings
One digital version of the current conference proceedings per participant is for free and will be handed out at the event. Single- or multi-user licenses or individual articles can be ordered in written form.

Contact
Phone +49 241 80 25646
Fax +49 241 80 625646
E-Mail china@aachen-colloquium.com
Address 4th Floor of ELION Building No. 1
Guanghua Road No. 15
Chaoyang District
100026 Beijing, P.R. China
报名

因参会者名额有限以及宴会厅容纳能力的限制，我们建议您及早报名。报名表格以及中国亚琛汽车和发动机技术年会的通常条款和条件请见活动宣传网站：
www.aachen-colloquium-china.com

会费：RMB 3880
提前注册优惠价格（9月30日前汇款有效）：RMB 3480
晚宴：免费
晚宴的随同人员：RMB 380

会议语言

会议采用同声传译，报告内容将被同声翻译为汉语和英语。同传耳机免费使用。会议资料将以英语出版。

现场报名处开放时间

周三，2019年11月13日，17:00 - 19:00
周四，2019年11月14日，07:30 - 17:15
周五，2019年11月15日，08:00 - 15:00

酒店

中国亚琛汽车和发动机技术年会报名不包含酒店预订。每名参加者需自行预订房间。

资料预订

每名参加者均可免费获得一份电子版的会议资料，资料将在活动上分发。参会者可以通过书面形式向主办方预订单份或多份会议资料、个别会议文章。

联系方式

电话：+49 241 80 25646
传真：+49 241 80 625646
邮件：china@aachen-colloquium.com
地址：北京市朝阳区光华路15号院亿利生态广场1号楼4层100026，中国
October 5th – 7th, 2020

Aachen, Germany
From Germany to China

November 11th – 13th, 2020
Beijing, China
Organized by

Institute for Automotive Engineering
Univ.-Prof. Dr.-Ing. Lutz Eckstein
www.ika.rwth-aachen.de

Institute for Combustion Engines
Univ.-Prof. Dr.-Ing. Stefan Pischinger
www.vka.rwth-aachen.de

Supported by

FEV
FEV Europe GmbH

fka
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www.aachen-colloquium-china.com
www.acc-china.net

china@aachen-colloquium.com

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