



# **XXVII. Deutsch – Polnisches Wissenschaftliches Seminar an der TH Köln**

## **7. bis 9. Juni 2016**

Department of Automotive Engineering  
Institut für Fahrzeugtechnik

30.05.2016

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**Prof. Dr.-Ing. Rainer Haas**  
Vehicle Drivetrain and NVH  
Faculty of Automotive Systems and Production



**Technology**  
**Arts Sciences**  
**TH Köln**

# Programm

## Tuesday 07.06.2016 – H3

09:30-10:00	Przemysław Gembiak, Vizekonsul Generalkonsulat der Republik Polen Prof. Dr.rer.pol Georg Engelmann Dekan Fakultät 08 Prof. Dr.-Ing. Rainer Haas	Introduction and Welcome
10:00-10:35	B.Eng. Raphael Wolf	Detaillierte Untersuchung, Analyse und Bewertung aktueller Verbrauchszyklen und Bestimmungsmethoden zur Ermittlung des durchschnittlichen Kraftstoffverbrauches von Serienfahrzeugen
10:35-11:10	Dr.-Ing. Tomasz Mirosław, Prof. Dr.-Ing. habil. Zbigniew Żebrowski	4 x wheel drive electric vehicle concept and modelling
11:10-11:45	Dr.-Ing. habil. Piotr Biczal	Modern batteries in public transportation
11:45-12:20	Prof. Dr.-Ing. Christian Dick	High-efficiency Wireless Charging System for Electric Vehicles and other Applications
12:20-13:00	Lunch Break	
13:00-13:35	Dr.-Ing. Piotr Piórkowski, Prof. Dr.-Ing. habil. Antoni Szumanowski	Electric vehicles as an distributed energy storage system supporting urban power grid"
13:35-14:10	Prof. Dr.-Ing. Jochen Blaurock	Innovative Lightweight Design for Electrical Vehicles
14:10-14:45	Prof. Dr.-Ing. Rainer Haas, B.Eng. Benjamin Kasulke	Comparison of 3D printed prototype structures and production intent metal parts regarding structural dynamic behaviour – Future gearbox housing development
16:00-17:30	Jan Sobczak, Generalkonsul Generalkonsulat der Republik Polen	Besuch des Generalkonsulates zum Austauschgespräch

# Programm

## Wednesday 08.06.2016 – ZS 7-13

10:00-10:45	Prof. Dr.-Ing. habil. Jacek Dybała	Teaching of Mechatronics at the Faculty of Automotive and Construction Machinery Engineering
10:45-11:30	Prof. Dr.-Ing. Axel Fassbender, B.Eng. Joachim Bohner, B.Eng. Tobias Schellen	Was? Womit? Wozu? Vom Frontalunterricht zum Lehren nach Bedarf
11:30-12:15	Prof. Dr.-Ing. Michael Frantzen, Dr. rer. nat. Alexandra Schreiner, B.Eng. Tilo Zuber, B.Eng. Fabian Bongertz	Vehicle Concepts & Integration: Complex research- and development processes in teaching and learning.
12:15-13:15	Lunch Break	
13:15-14:00	Prof. Dr.-Ing. habil. Witold Marowski	Courses of study at the Faculty of Automotive and Construction Machinery Engineering and possible areas of cooperation with TH Köln
14:00-14:30		Open Discussion - Teaching Cooperation - including Coffee Break
14:30-15:15	Prof. Dr.-Ing. Peter Krug	Teaching Materials Science at Bachelor and Master Courses in Automotive Engineering
15:15-15:50	Dr.-Ing. Waldemar Graniszewski	Network steganography
15:50-16:25	Prof. Dr.rer.pol. Stephan Freichel	Delivery (time) strategies in the Independent Automotive Aftermarket
16:25-17:00	Dr.-Ing. Bartłomiej Ufnalski	Repetitive process control as a dynamic optimization problem
17:00-17:35	B.Sc. Silvan Fassbender, M.Sc. Jan Bollenbacher, Prof. Dr. Eberhard Waffenschmidt, Prof. Dr. Beate Rhein	Introduction to Empowerment with an application in control of electrical distribution grids

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Thursday 09.06.2016

09:00-10:00 Bus Transfer

10:00-12:30 **Guided Tour  
Klingelberg**

12:30-13:00 Bus Transfer

13:00-14:00 Lunch Break

14:30-15:15 **Schloss Burg  
Guided Tour**

16:00-16:45 Bus Transfer

