

Program for GER-TR Workshop on Powertrain

Monday, March 17

17:00 *Arrival / Get Together / Greetings / Evening Lectures*

Dr. Peter Tropschuh (Auto Uni Volkswagen)
Asc. Prof. Dr. MustafaTiris (TÜBITAK MAM)
Prof. Dr. Müfit Bahadır (Vice President, TU Braunschweig)
Peter Webers (Federal Ministry of Education and Research, BMBF)

19:00 *Powertrain in General*

Facts & Figures for the Automotive Industry in Turkey
Prof. Dr. Ercan Tezer (OSD)

Automotive Headquarters Germany
Dr. Thomas Schlick (VDA)

Tuesday, March 18

09:00 **EEE – Engines (I.C.), Emissions, Environment (I)**

Chairman: Prof. Dr. Demir Bayka

Alternative Diesel Combustion Systems

Prof. Dr. Peter Eilts (TU BS, ivb)

Research Capability and Recent Studies

Prof. Dr. Metin Ergeneman (ITÜ)

Ford Otosan – Gebze Powertrain Engineering Research & Development Activites
Ergün Güraslan (FORD OTOSAN)

10:30 **Coffee Break**

11:00 **The TSI concept by Volkswagen – the future of Efficient Gasoline Engines**

Dr. Hermann Middendorf,
Dipl.-Ing. Niels Möller (VW)

Potential of Future SI Engines
Dr. Christoph Bollig (FEV)

Transmission & Driveline / AWD

Chairman: Varlik Kiliç

Drivetrain - Optimisation of requirements
Prof. Dr. Ferit Küçükay (TU BS, IfF)

4WD in the area of tension between economy and ecology
Dipl.-Ing. Volker Marx (Daimler)

Quattro – history, current technology and future development
Dr. Ralf Schwarz, Dipl.-Ing. Sebastian Straßer (Audi)

Coffee Break

Powertrain Elements

Prof. Dr. Gerhard Poll (Uni Hannover)

7-Speed DSG – The success story continues

Dr. Timo Götte, Dr. Frank Looock (VW)

12:00 **Lunch**

13:30 **Alternative Fuels & Lubricants**

Chairman: Asc. Prof. Dr. MustafaTiris (TÜBİTAK MAM)

Lubricants
Dr. Vedat Akgün (OPET)

BP' perspective on future fuels
Dr. Wolfgang Dörmer (BP/ARAL)

Biofuel for Diesel Engines – Current and Future Developments
Dr. Jürgen Fischer,
Dipl.-Chem. Jeremie Groos (ADM)

15:30 **Coffee Break**

16:00 **Future Technology Drivers for Driveline Lubricants**
Dipl.-Ing. Martin Huber (BP)

Scope and latest developments in oil industry of Turkey
Dr. Erol Metin (PETDER)

Consequences of the Biofuel Roadmap for Engine Development
Dr. Thomas Garbe (VW)

Engine Development for Hydrogen Vehicles at BMW
Dr. Hermann Rottengruber (BMW)

Lightweight Construction / Materials / Durability

Chairman: Prof. Dr. Ferit Küçükay

Requirements for future materials in automotive applications
Dr. Johannes Staeves (BMW)

Alternative Materials On Heavy Vehicles
Volkan Bayraktar (TEMSA AS)

Run of Experimental Durability Tests by TU Istanbul
Prof. Dr. Murat Ereke (OTAM)

Coffee Break

Alternative Powertrains Hybrid & Electric Vehicles

HEV, Hybrid Structures
Research on the Hybride Vehicles in Turkey
Varlık Kiliç (FORD OTOSAN)

Hybrid Vehicle and Fuel Cell Research at TÜBİTAK MRC Energy Institute
Hamdi Uçarol (TÜBİTAK MAM)

Electrical machines in Hybrid-drive trains
Prof. Dr. Wolf-Rüdiger Canders (TUBS, IMAB)

Advanved transient simulation of electric drive systems
Prof. Dr. Bernd Ponick (Uni Hannover)
Prof. Dr. A. Mertens (Uni Hannover)

18:00 **Drive Assistance and Safety**

The Drivesafe Project and Facial Expression Analysis for Fatigue Detection
Prof. Dr. Aytül Ercil (Sabanci University)

The CarOLO Project at Urban Challenge 2007
Prof. Dr. Bernhard Rumpe (TUBS)

19:30 **Reception by the Mayor of Wolfsburg at the Wolfsburg Castle**

Wednesday, March 19

09:00 **Departure to Isenbüttel**

09:30 **Site Visit at VW Research on Fuel Cells – Isenbüttel Research Center**

HT PEM an Inhouse Develepment of Volkswagen

Dr. Frank Seyfried (VW)

12:00 **Lunch at the Seehotel am Tankumsee**

13:30 **Trends and Tendencies**

Chairman: Prof. Dr. Peter Eilts

Dr. Wolfgang Steiger (VW)

Ernur Mutlu (Ford OTOSAN)

14:30 **Coffee Break**

15:00 **Cooperation Models – Granting and General Discussion**

Chairman : Prof. Dr. Mustafa Tiris/Prof. Dr. Müfit Bahadır

Introduction lecture

Dr. Akin Akkoyun (BMBF – PT / DLR)

Establishing the European Automotive Strategy Network (EASN)

Kishor Pala (Birmingham Chamber of Commerce)

A Model for University-Industry-Cooperation in Turkey

Prof. Ali G. Göktan (OTAM)

R&D Funding Priorities of the German Federal Ministry of Economics and Technology

Dr. Bernhard Koonen (TÜV Akademie Rheinland GmbH)

R&D Cooperation Grants

Gürçan Ozan (TÜBİTAK)

17 :00 **Conclusions**

Rapporteur: Venio Piero Quinque (TU9 German Institutes of Technology)

19:30 **Conference Dinner**

Thursday, March 20

Departure

Organization Committee

Prof. Dr. Müfit **Bahadır**, Chairman of the German Party, TUBS
Assoc. Prof. Dr. Mustafa **Tiris**, Chairman of the Turkish Party, TÜBİTAK MAM
Prof. Dr. Ferit **Küçükay**, Dr. Orhan Atabay, Tobias Kassel, TUBS Automotive Eng.
Prof. Dr. Peter **Eilts**, Christian Weiskirch, TUBS Internal Combustion Engines
Dr. Peter **Tropschuh**, AutoUni (Volkswagen), Director
Bernd **Mentzel**, Volkswagen
Dietmar **Kähler**, TUBS, Center for Further Education

Local Organization

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Curriculum Vitae

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Abstracts

Dear Participant

**You are invited to take part at the reception by the
Mayor of Wolfsburg at the Wolfsburg Castle**



Tuesday, March 18

Beginning: 19:30

General Information