Technical Congress at the 57th IAA Commercial Vehicles

– IAA-TC –

Organised by VDA and SAE
In Cooperation with VDI

Innovations in the Commercial Vehicle Industry

September 7/8, 1998, Hanover, Germany
Tagungs Centrum Messe (TCM), IAA Fair Area

– Documentation –
September 7 • TCM  Room 15/16

10.00 h  Opening Welcome:  Dr. Bernd Gottschalk, President VDA
Opening Address:  Dr.-Ing. Klaus Schubert, Chairman MAN Nutzfahrzeuge

Workshop I  Vehicle and System Development
Moderator:  Prof. Dr.-Ing. Hubertus Christ, President VDI

10.45 h  ACCENTform, Christian Schulz: Innovative and cost effective body manufacturing
11.15 h  BPW Bergische Achsen, Dr.-Ing. Reinhold Pittius: Scheibenbremsen für gezogene Fahrzeuge
11.45 h  EvoBus, Jochen Duppui: Cito – the new midi-bus from Mercedes-Benz
12.15 h  Freudenberg, Dr. Eckhard Schneider, Dr.-Ing. R. Käster, H. Prinzler: Active linear absorber for trucks and buses
12.45 h  Lunch Break
14.00 h  KAMAX-Werke, Dr. Gunther Hartmann: Cold forming of narrow tolerances demonstrated for truck wheel bolts
14.30 h  Krupp Hoesch Automotive, Dr. Karsten Kroos, Dr.-Ing. Frank Hiller: Innovative Produkte durch Systemlösungen
15.00 h  MAN Nutzfahrzeuge, Jürgen Elsner, Stefan Bernhardt: Einsatz von virtuellen Prototypen bei der Entwicklung von Nutzfahrzeugen
15.30 h  Volkswagen Nutzfahrzeuge, Dr.-Ing. Horst Oehlschlager, E. Pape: Modern simulation techniques in the development process of light commercial vehicles
16.00 h  SIKA, Bernhard Lanzendorfer: Sika-Booster adhesives: Reducing assembly times in commercial vehicle and bus construction
16.30 h  WABCO Fahrzeugbremsen, Detlef Neuhaus, Bodo Klein: EBS – Erfahrungen im Serieneinsatz und Weiterentwicklung

September 8 • Parallel Workshops  Room 17

Moderator:  Prof. Dr. Gunter Zimmermeyer, Managing Director VDA

Workshop II  Electrical Systems / Electronics

10.00 h  ACTIA SA, Philippe Guyard, Philippe Boutonnet: Next generation electrical architecture systems design
10.30 h  FER Fahrzeugelektrik, Jens Häußer: Intelligente Positionssensoren nach neuem Meßprinzip
11.00 h  Mannesmann VDO, Joachim Lassmann: Multiplex systems in commercial vehicles
11.30 h  Mannesmann VDO, Detlef Pfeiffer: A quantum jump in fraud prevention: The digital tachograph
12.00 h  Mannesmann VDO, Christoph Schäfer: Development and structure in networked commercial vehicle systems
12.30 h  Lunch Break

Workshop IV  Fleet Management

13.30 h  Blaupunkt-Werke, Dr. Rudolph Vollmer: Blaupunkt system for efficient fleet management
14.00 h  DIVITECH, Rossella Panero: Fleet management systems: Technology and solutions for a new and diverse market

Workshop VIII  SAE Presentations

14.30 h  Eaton Corp., Shubhayu Chakraborty: Drowsy driver system integrated with a collision warning system (CWS)
15.00 h  Eaton Corp., Richard A. Nellums: Breakthrough for shifting gears in commercial vehicle transmissions
15.30 h  Horton Inc., Steve Clancey, David Hennessy: Diesel engine cooling fan drive options
16.00 h  Meritor Automotive, Shan Shih: Heavy and medium duty vehicle powertrain virtual prototyping
16.30 H  Volvo Truck Corp., Lars-Göran Löwenadler: Truck Safety – an OEM perspective
September 8 • Parallel Workshops Room 13/14

Moderator: Prof. Dr.-Ing. Ulrich Seiffert, TU Braunschweig

Workshop VI Engine / Exhaust Systems

10.00 h Daimler-Benz, Thomas Harr: The new 6-cylinder diesel engine OM 906 LA from Daimler-Benz

10.30 h Daimler Benz, Dr. Volker Schwarz, Prof. Dr. Klaus Binder: Pump-line-nozzle (PLN) / Common rail (CR)-injection system. What is the system for the next development step?

11.00 h Filterwerk Mann + Hummel, Dr.-Ing. Holger Paffrath, Peter Frehland, Helmhut Fischer: Renaissance of free jet driven centrifugal oil cleaner – a future concept for oil filtration

11.30 h Knecht Filterwerke, A. Enderich: Air filter for the “Actros” – Computer aided engineering

12.00 h MAN Nutzfahrzeuge, Herbert Knorr: The new MAN lean-burn natural-gas engine with turbo-charging and intercooling

12.30 h Lunch Break

13.30 h Pierburg, Dr.-Ing. Karl Heinrich Löning: A new type of mass air flow sensor for EGR control

14.00 h Robert Bosch, Dr.-Ing. Rudolph Maier, Christoph Kirsch: Advanced heavy duty Bosch diesel fuel injection systems for future demands

14.30 h Siemens, Wieland Mathes: SINOx catalyst for commercial vehicles, NOx abatement for heavy duty trucks

15.00 h Steyr Nutzfahrzeuge, Dr. techn. Harald Schloegl: A new engine braking system for MAN heavy duty trucks

Workshop VII Drive Train

15.30 h Eaton Truck Components, Tim Morscheck, in co-operation with MAN Nutzfahrzeuge, Dr. K. V. Schaller: Eaton Fuller AutoShift 16 – automatic shifting transmission with fuzzy-logic shift scheduler

16.00 h Daimler-Benz, Dr. Jörg Zürn, Robert Wallner: Entwicklung von Schaltsystemen bei mechanischen Nutzfahrzeugen

16.30 h Mannesmann Sachs, Dr. Hans-Jürgen Drexl: The clutch module in the new CAN bus-supported diagnosis system for trucks – a tool for longer clutch life

17.00 h ZF Friedrichshafen, Wolfgang Schilha: ZF-ASTronic – a new yardstick in bus and coach driveline technology

September 8 • Parallel Workshops Room 15/16

Moderator: Prof. Dr.-Ing. Henning Wallentowitz, Institut für Kraftfahrwesen, RWTH Aachen

Workshop V Chassis Development

10.00 h Continental, Dr.-Ing. Axel Becker, Dr.-Ing. Werner Fornefeld: Simulative process for the layout of truck tires

10.30 h Knorr-Bremse, Dr. Eduard Gerum: EBS (Electronic Braking System) der Zukunft

11.00 h ZF Friedrichshafen, Thomas Keller, Walter Kogel: Rear axle steering system for trucks and buses

11.30 h Lucas Varity, Roy Morris, J. P. Müller: An innovative approach to the braking of hybrid commercial vehicles

12.00 h Mannesmann Sachs, Matthias Raulf, Thomas Kutsche; WABCO Fahrzeugbremsen, Dr. Hans Otto Becher: Optimized ride control of commercial vehicles

12.30 h Lunch Break

13.30 h ÖAF-Graf & Stift, Heinz Müller: A new suspension system for heavy commercial vehicles

14.00 h Robert Bosch, C. Beyer, F. Hecker, H. Schramm: Electronic stability program (ESP) for commercial vehicles

14.30 h TU Berlin, Prof. Dr. Friedrich Böhm, Prof. Dr. A. Duda: New design for truck tires

Workshop III Cooling / Air Conditioning

15.00 h Behr, Josef Kern: New design of brazed all-aluminium radiators and coolers

15.30 h Behr, H. Kampf: New control concepts for improved climate comfort in truck cabins

16.00 h EvoBus, Dr.-Ing. Manfred Marx: Development and use of modular air conditioning systems in modern coaches

16.30 h KONVEKTA, Dr. Jürgen Köhler: Bus air condition and transport refrigeration using the environmentally benign refrigerant Carbon Dioxide

17.00 h Modine Längunger & Reich, Werner Zobel, Michael Ehlers, Bernhard Stephan: High performance truck cooling system CCS

Remarks: Opening is in German language, presentations in German or English; simultaneous translation in German and English is provided. Participants can move within workshops.

Programme is subject to alterations.