THURSDAY JUNE 5 2014

8:30-10:00  AST7 – PROTECTION OF VULNERABLE ROAD USERS

F2014-AST-093*; Model Reduction of Head Impact Simulations on a Vehicle Bonnet
Dr Olaf Op den Camp, Dr Hala Elrofai, Dr Stratis Kanarachos, TNO, the Netherlands

08:30-10:00  CET7.1 – LIQUID FUEL AND LUBRICATION I

F2014-CET-079; Experimental Study of Flame Propagation Limits Resulting From Mixture Dilution in Methane Fueled Gas Engines
Prof. Rik Baert PhD, Dr Erik Doosje, TNO, the Netherlands

10:30-12:30  IVC8 – VEHICLE DYNAMICS AND CHASSIS CAE

F2014-IVC-069; Application and Validation of the MF-Swift Model for Parking Manoeuvres
Dr Antoine Schmeitz, Ruud Van der Hofstad MSc, Willem Versteden MSc, TNO, the Netherlands; Florian Niedermeier BSc, Dr Markus Bullinger, BMW, Germany

EXECUTIVE TRACK

10:30-12:30  NEW MOBILITY: VEHICLE AND CONTROL CONCEPTS

F2014-ACD-004; Cooperative Automated Emergency Braking for Improved Safety beyond Sensor Line-of-Sight and Field-of-View
Dr Maurice Kwakernaat, Frank Ophelders MSC, Dehila Willemsen MSc, Ellen van Nunen Msc, TNO, the Netherlands

13:30-15:30  ADVANCED SAFETY TECHNOLOGIES

F2014-AST-071; Assessment Methodologies for Forward Looking Integrated Pedestrian Safety Systems – The AsPeCSS Project
Monica Pia, IDIADA Automotive Technology SA, Spain; Marcus Wisch, BASf, Thomas Schaller, Paul Lemmen, Humanetics Europe, Germany, Stefanie de Hair, TNO, the Netherlands

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The 3300 TNO professionals put their knowledge and experience to work in creating smart solutions to complex issues. These innovations help to sustainably strengthen industrial competitiveness and social wellbeing. We are partnered by some 3000 companies and organisations, including SMEs, in the Netherlands and around the world. On the topic of Transport and Mobility we create breakthroughs through technological innovation, influencing of human behaviour, and more intelligent organisation for safer, cleaner and more reliable mobility. More information: TNO.NL
15:30-17:30 AHF3 – ADVANCED DRIVERS ASSISTANCE SYSTEMS

F2014-AHF-007; Driver Behaviour Monitoring Based On Vehicle Sensors for Safety-Critical Event Logging
Lex van Rooij MSc, Tjerk Bijlsma, Jeroen Hogema, Liselotte Kroon, Premnaath Sukumar, Dehlia Willemsen, TNO, the Netherlands

15:30-17:30 AST3 – NEW REQUIREMENTS, STANDARDS, REGULATIONS, CONSUMER TESTS

F2014-AST-06; Virtual Testing Based Type Approval Method for AEB Systems
Rob van der Aar BSc, Roy Bours MSc, Martijn Tideman MSc, Gijs de Rijk BSc, TASS International B.V.; Olaf op den Camp MSc, TNO, the Netherlands

15:30-17:30 IVC3 – INTELLIGENT CHASSIS CONTROLS III

F2014-IVC-058*; Tire State Estimation Based on Measured Accelerations at the Tire Inner Liner using an Extended Kalman Filter Design
Laura van de Molengraft-Luijten MSc, Dr Antoine Schmeitz, TNO, the Netherlands

F2014-IVC-023*; Integrated Chassis Control Based on the State Dependent Riccati Equation Technique
Dr Mohsen Alirezaei, Dr Stratis Kanarachos, TNO, the Netherlands