



## CONFERENCE PROGRAM

DAY 1 – 13 November 2008, Thursday

### Opening Session

09:00 – 09:10	Welcome Speech <i>Dr. A. Murat YILDIRIM – Conference Chairman</i>
09:10 - 09:30	Opening Speech <i>Ali KOC – President, Koc Holding, Corporate Communications and Information Technologies Group</i>

Chairman: Ufuk Guclu

09:30 - 09:50	Opening Speech <i>Turgay DURAK – President, Koc Group, Automotive Manufacturers Association &amp; President Koç Holding Automotive Group</i>
09:50 - 10:10	Opening Speech <i>Helmut LIST – AVL, Chairman and CEO</i>
10:10 - 10:30	Opening Speech <i>Jan NAHUM – Hexagon A.S. Vice Chairman</i>

***Sponsor Plaque Ceremony (10:30 – 10:45)***

*Coffee Break (10:45 – 11:15)*

### Session 2a - Hybrid Electric Vehicles

Chairman: Helmut List

11:15 - 11:45	Engineering Options For The Automobiles Of The Future <i>Lino GUZZELLA – ETH Zurich</i>
11:45 - 12:15	NVH Of Alternatively Powered Vehicles <i>Jeroen LANSLOTS - LMS International</i>
12:15 - 12:45	The Electrification of Powertrain <i>Jan LICHTERMANN – Robert Bosch GmbH</i>



### Session 2b - Advanced Engine Technologies

Chairman: Oguz Borat

11:15 - 11:45	Recent Developments On HCCI Engine Modelling <i>Cem SORUSBAY - Istanbul Technical University</i>
11:45 - 12:15	The Fuel Lean Operational Limits Of Spark Ignition Engines <i>Ghazi KARIM - University of Calgary</i>
12:15 - 12:45	Analysis Of Combustion Characteristics Of CAI Engine With Various Valve Strategies <i>Ho Young KIM - Korea University</i>

*Lunch (12:45 – 14:00)*

### Session 3a - Hybrid Electric Vehicles

Chairman: Bengt Johansson

14:00 - 14:30	Customer's Benefit Of HEV? <i>Ferit KUCUKAY - Technische Universität Braunschweig</i>
14:30 - 15:00	Hybrid Vehicle Technologies: Trends, Challenges And The Future <i>Umut GENC - AVL Research and Engineering Turkey</i>
15:00 - 15:30	FOHEV II - The Ford Otosan Hybrid Electric Research Prototype Vehicle <i>Levent GUVENC – Istanbul Technical University</i>

### Session 3b - Engine Injection Strategies

Chairman: Iskender Gokalp

14:00 - 14:30	Recent Design Methods For Diesel Injection Nozzles <i>Emrah GOLBASI - Robert BOSCH, Turkey</i>
14:30 - 15:00	Droplets Size And Velocity Measurements In A Spray From A Common Rail System For DI Diesel Engines <i>Luigi ALLOCCA - Istituto Motori CNR</i>
15:00 - 15:30	In-Cylinder Cold Flow Modeling With Spray Interaction In A Heavy Duty DI-CI Engine <i>Zafer GUL - Marmara University</i>

*Coffee Break (15:30 – 16:00)*



### Session 4a - Hybrid Electric Vehicles

Chairman: Samim Unlusoy

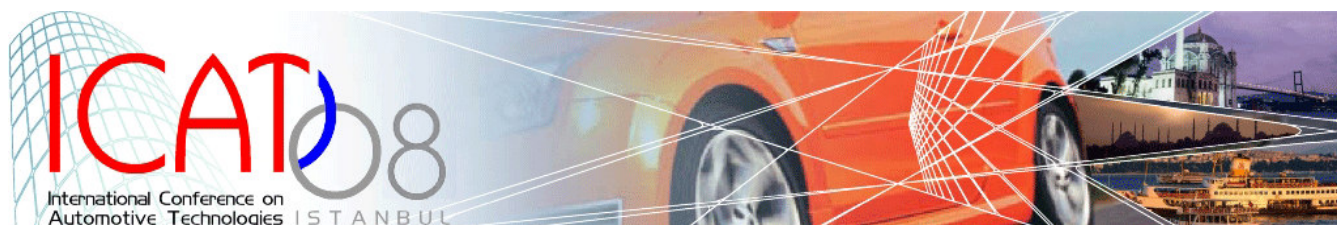
16:00 - 16:30	Pneumatic Hybrid – An Alternative To Electric Hybrid? <i>Bengt JOHANSSON - Lund Institute of Technology</i>
16:30 - 17:00	Design Prototyping Of Hybrid Electric Vehicle Electronic Control Unit <i>Dincer Mehmet BAHAR - TÜBİTAK MAM Energy Institute</i>
17:00 – 17:30	Development Of A Hybrid Electric Heavy Duty Truck <i>Samim UNLUSOY, Kemal CALISKAN - Middle East Technical University</i>

### Session 4b - Engine & Combustion Modelling

Chairman: Cem Sorousbay

16:00 - 16:30	Investigation Of Cylinder Pressure For H <sub>2</sub> /CH <sub>4</sub> Mixtures At Different Load <i>Bilge CEPER, S. Orhan AKANSU – Erciyes University</i>
16:30 - 17:00	Effect Of Spacing And Number Of Droplets On Combustion In One-Dimensional Droplet Array Of Water-In-Fuel Emulsions <i>Manseok JEONG - Suncheon National University</i>

**- End of Day 1 -**



DAY 2 - 14 November 2008, Friday

**Session 5a - Intelligent Vehicles & Safety**

Chairman: Ercan Tezer

09:00 - 09:30	Opportunities In Its Technologies For Hybrid Electric Vehicles <i>Umit OZGUNER - Ohio State University</i>
09:30 - 10:00	Present And Future Of Intelligent Transportation Systems <i>Claude LAURGEAU - Centre de Robotique – MinesParisTech</i>
10:00 - 10:30	Automated Fatigue Detection For Improved Driving Safety <i>Aytul ERCIL – Sabanci University</i>

**Session 5b: Alternative Fuels**

Chairman: Ali Surmen

09:00 - 09:30	Potential Alternative Automotive Transport Fuels For Turkey <i>Iskender GOKALP – EPEE, CNRS</i>
09:30 - 10:00	Fuel Additives And Their Role In Vehicle CO2 Reduction <i>John BENNETT - Afton Chemical Limited</i>
10:00 - 10:30	An Evaluation On Biodiesel Policies In Turkey <i>Ali SURMEN - Uludag University</i>

*Coffee Break (10:30 – 11:00)*

**Session 6a - Hydrogen Technologies & Fuel Cells**

Chairman: Umit Ozguner

11:00 - 11:30	The Home Energy Station: More Than A Distributed Hydrogen Refueling Solution <i>Jim WINKELMAN - Plug Power</i>
11:30 - 12:00	Economic & Commercial Viability Of Hydrogen Fuel Cell Vehicles From An Automotive Manufacturer Perspective <i>Gregory FRENETTE - Ford Motor Company</i>
12:00 - 12:30	Performance Prediction Of A Proton Exchange Membrane Fuel Cell Using The ANFIS Model <i>Yasemin VURAL - University of Leeds</i>



### Session 6b - Alternative Fuels

Chairman: Ghazi Karim

11:00 - 11:30	Performance Of A Short Chemical Mechanism Under HCCI Conditions
	<i>Hakan SOYHAN - University of Sakarya</i>
11:30 - 12:00	Biodiesel Resistance Of Thin Resin Cr-Free Steel Sheets
	<i>Kyung-Kwan LEE - Sunchon National University</i>
12:00 - 12:30	New Fuels And Technologies For Powertrain Systems: State Of The Art And Impact On The Automotive Industry
	<i>Oscar Ciordia ESCRIBANO - FITSA Foundation</i>

*Lunch (12:30 – 14:00)*

### Session 7a - Future Technologies & Alternative Strategies

Chairman: Aytul Ercil

14:00 - 14:30	Hybrid Solar Vehicles: Perspectives, Problems, Management Strategies
	<i>Gianfranco RIZZO - University of Salerno</i>
14:30 - 15:00	Design Optimization Of A Solar Race Car With Energy Management Approach
	<i>Nejat TUNCAY - MEKATRO R&amp;D Co</i>
15:00 - 15:30	Potential Strategies And Technologies Of A Kinetic Energy Recovery System For Formula One
	<i>Gabor KOVACS - AVL Powertrain UK Ltd</i>

### Session 7b - Aftertreatment Systems

Chairman: Zafer Gul

14:00 - 14:30	Active And Passive Aftertreatment Systems: A Numerical Analysis Of Energetic Performances
	<i>Angelo ALGIERI - University of Calabria</i>
14:30 - 15:00	An Innovative After-Treatment System For Diesel PM Removal
	<i>Shuilang YAO - Research Institute of Innovative Technology for the Earth</i>
15:00 - 15:30	PM Removal System For Diesel Passenger Vehicle Using Non-Thermal Plasma
	<i>Kazuhiko MADOKORO - DAIHATSU Motor Co., Ltd</i>

*Coffee Break (15:30 – 16:00)*



### Session 8a - Active Safety & Advanced Driver Assistance

Chairman: Levent Guvenc

16:00 - 16:30	Camera-Link And Synchronism In Automotive Multi-Vision Systems <i>Marc Anthony AZZOPARDI - University of Malta</i>
16:30 - 17:00	Simulation Methods To Evaluate And Verify Functions, Quality And Safety Of Advanced Driver Assistance Systems <i>Alexander SCHMIDT - IPG Automotive GmbH</i>
17:00 - 17:30	An Overview Of Applied Research Activities Of ITU MEKAR And Ford Otosan On Active Chassis Control Of Light Commercial Vehicles <i>Server ERSOLMAZ - Ford Otomotiv Sanayii A.S</i>

### Session 8b - Energy Storage Systems

Chairman: Ozgen Akalin

16:00 - 16:30	Analysis Of Overcharge & Overdischarge Characteristics And Failure Detection Of Li-Ion Polymer Batteries <i>Cem KAYPMAZ - TUBITAK MAM Energy Institute</i>
16:30 - 17:00	Ni-MH Battery Pack For HEV <i>Cem KAYPMAZ - TUBITAK MAM Energy Institute</i>
17:00 - 17:30	Participation Of Turkey To The Hybrid And Electric Vehicles Implementing Agreement Of The International Energy Agency <i>Hamdi UCAROL - TUBITAK MAM Energy Institute</i>

**- End of Day 2 -**

