



Four Seasons Hotel at the Bosphorus







November, 5, 2010

Istanbul, Turkey

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Fossil Fuels: Today and Tomorrow

Since 2000, ICAT Conferences have undertaken a task of discussing, evaluating and sharing future and recent developments in automotive technologies with the industry. The fifth of this series, International Conference on Automotive Technology – ICAT 2010 will be held on 5th November, 2010 in Istanbul. The main theme of this conference will be “**Fossil Fuels: Today and Tomorrow**”.

	<p>Dr. Josef AFFENZELLER</p> <ul style="list-style-type: none"> ▪ Chairman, European Automotive Research Partners Association (EARPA) ▪ Director of Research Coordination, AVL List GmbH <p><i>"The European Road Transport Technology Platform: Contents and Goals of the Strategic Research Agenda"</i></p>
	<p>Orhan GENİŞ</p> <ul style="list-style-type: none"> ▪ Regional General Manager, Central/Eastern Europe & CIS, Honeywell Process Solutions <p><i>"Energy Solutions for Refining and Petrochemical Industries"</i></p>
	<p>Prof. İskender GÖKALP</p> <ul style="list-style-type: none"> ▪ Director, Institut de Combustion, Aérothermique, Réactivité et Environnement (ICARE), French National Center for Scientific Research (CNRS) <p><i>"Clean Use of Fossil Fuels"</i></p>
	<p>Prof. Lino GUZZELLA</p> <ul style="list-style-type: none"> ▪ Director, ETH Zürich Institute for Dynamic Systems and Control Technologies <p><i>"Technological Options for the Car of the Future"</i></p>
	<p>Prof. Stefan PISCHINGER</p> <ul style="list-style-type: none"> ▪ President and CEO, FEV Motorentechnik GmbH, ▪ Director, Aachen Technical University Institute for Combustion Engines, <p><i>"Tailor Made Fuels from Biomass: Simultaneous Design of Future Fuels and Engines"</i></p>
	<p>Anders ROJ</p> <ul style="list-style-type: none"> ▪ Volvo Technology Corporation ▪ Head of ACEA Fuels and Lubricants Group <p><i>"Fuelling Future Vehicles – Challenges and Opportunities"</i></p>





PRELIMINARY AGENDA

OPENING SESSION

08:30 – 09:00	Registration
09:00 – 09:10	Welcome Speech
	Dr. A. Murat YILDIRIM – Conference Chairman
09:10 – 09:30	Opening Speech
	Yavuz ERKUT – General Manager / TUPRAS

SESSION 1: FOSSIL FUELS – TODAY AND FUTURE PROSPECTS

CHAIRMAN:

09:30 – 09:50	Dr. Josef AFFENZELLER - Chairman, EARPA - Director of Research Coordination, AVL List GmbH
	<i>ERTRAC - the European Road Transport Technology Platform: Contents and Goals of the Strategic Research Agenda</i>
09:50 – 10:10	Anders ROJ - Volvo Technology Corporation - Head of ACEA Fuels and Lubricants Group
	<i>Fuelling Future Vehicles – Challenges and Opportunities</i>
10:10 – 10:30	Orhan GENIS - Regional General Manager, Central/Eastern Europe & CIS, Honeywell Process Solutions
	<i>Energy Solutions for Refining and Petrochemical Industries</i>

Coffee Break (10:30 – 10:50)

SESSION 2: RENEWABLE FUELS - POTENTIALS

CHAIRMAN:

10:50 – 11:10	Prof. Stefan PISCHINGER - President and CEO, FEV Motorentechnik GmbH - Director, Aachen Technical University Institute for Combustion Engines
	<i>Tailor Made Fuels from Biomass: Simultaneous Design of Future Fuels and Engines</i>
11:10 – 11:30	Prof. Ghazi KARIM – University of Calgary
	<i>The Combustion of Biogases and Low Heating Value Gaseous Fuel Mixtures</i>
11:30 – 11:50	Dr. Ali EVCIL - Near East University
	<i>Biodiesel Production From Waste Frying Oil and Determination of Its Cold Flow Properties</i>
11:50 – 12:10	Prof. Dr. Iskender GOKALP - Director, ICARE, CNRS
	<i>Clean Use of Fossil Fuels</i>

Lunch Break (12:10 – 13:30)





SESSION 3: VEHICLES OF THE FUTURE – ALTERNATIVE POWERTRAINS

CHAIRMAN:

13:30 – 13:50	Prof. Dr. Lino GUZZELLA - Director, ETH Zürich Institute for Dynamic Systems and Control Technologies <i>Technological Options for the Car of the Future</i>
13:50 – 14:10	Detlef van BRACHT - Bosch Rexroth <i>Serial Hydraulic Hybrid: DVR-IVT</i>
14:10 – 14:30	Umut GENC - Managing Director, AVL Research & Engineering <i>Driving Strategies for Accessory Loads in Hybrid Electric and Electric Vehicles</i>
14:30 – 14:50	Assoc. Prof. Seref SOYLU – Sakarya University <i>Examination o Real World Operating Conditions and Emissions of a Hybrid City Bus</i>

Coffee Break (14:50 – 15:10)

SESSION 4: ENERGY ECONOMY IN TRANSPORT

CHAIRMAN:

15:10 – 15:30	Dr. John BENNETT - Senior Manager Fuels, Afton Chemical Limited <i>Fuel Consumption Improvement and Measurement In Heavy Duty Diesel Vehicle Applications</i>
15:30 – 15:50	Prof. Dr. Ali GOKTAN - Istanbul Technical University <i>Fuel Economy and Greenhouse Gas Emissions Related to Urban Driving Behaviour</i>
15:50 – 16:10	Krail MICHAEL - Fraunhofer Institute for Systems and Innovation Research <i>Technological Potential For CO₂ Emission Reduction of Passenger Cars</i>

Coffee Break (16:10 – 16:20)

SESSION 5: FUEL ALTERNATIVES AND ENHANCEMENT STUDIES

CHAIRMAN:

16:20 – 16:40	Dr. Dilek VARISLI - Gazi University <i>Dimethyl Ether (DME) as an Environmentally Friendly Transportation Fuel Alternate</i>
16:40 – 17:00	Dr. Levent DEGIRMENCI - Gazi University <i>Catalytic Studies For Ethanol Based Oxygenates as Gasoline Octane Enhancers</i>
17:00 – 17:20	Dr. Ali Tugrul ALBAYRAK – Istanbul University <i>Sonocatalytic Oxidative Desulfurization of Model Sulfur Compounds</i>

– END OF CONFERENCE –





CONFERENCE TOPICS

1. FOSSIL FUELS

- Current Energy Balances (Fossil Fuel based)
- Fossil Fuel Technologies of Today and Future Prospects
- New Generation of Fossil Fuels
- Clean Use of Fossil Fuels: Challenges and Proposed Solutions
- Improvement of Energy Efficiency in Refineries
- Solutions for Sufficient, Clean and Secure Supply of Fossil Fuels
- Non-conventional Sources of Fossil Fuels
- Low-Emission Refineries, CCD Retrofitting

2. POTENTIALS FOR RENEWABLE MOTOR FUELS

- Biofuels
- Biorefineries
- Biofuel Standards
- Energy Crops, Feedstock and Sustainability
- Future Prospects for Bioenergy Technologies

3. ENERGY ECONOMY IN TRANSPORT

- Vehicles of the Future
- Additives, Lubricants and Coatings
- Future Technologies for Transport

4. CURRENT POLICIES, LEGISLATIONS AND SUBSIDIES RELATED TO FUELS

- Energy Policies
- Regulations to Limit the Use of Liquid Fuels
- Energy Laws, Legislations and Practices
- Kyoto Protocol and Carbon Trade
- Scenarios for the Green Future
- Energy Security and Sustainability

5. ALTERNATIVE POWERTRAINS AND POWERTRAIN CONTROL

- Diesel Engine Development, Durability and Emissions
- Emerging Diesel Technologies
- Gasoline Engine Development, Durability and Emissions
- Alternative Drivetrains
- Advances in Powertrain Control for Reduced Emissions
- Further Carbon Reductions - Possibilities and Challenges





REGISTRATION DETAILS

For registration of ICAT 2010 please find the below details and send it to the attention of;
Ms. Emine Agcaabat or **Ms. Nesrin Sakarya**.

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For online registration please refer to conference website: www.icatconf.com

Regular updates on the conference programme are also available on the website.

REGISTER UNTIL OCTOBER 15, 2010	REGISTER ON SITE
<input type="checkbox"/> 300,00 USD	<input type="checkbox"/> 360,00 USD
FOR ACCOMPANYING PERSON	FOR ACCOMPANYING PERSON
<input type="checkbox"/> 180,00 USD	<input type="checkbox"/> 210,00 USD

UNIVERSITY FACULTY MEMBERS AND STUDENTS REGISTRATION
<input type="checkbox"/> 300,00 TL

