

Future Transportation Technology Conference

Technical Session Schedule

As of 09/13/2005 07:40 pm

Wednesday September, 7

Fuel Cell, Electrical & Hybrid Systems

Session Code: FTT6

Room HUB Armour Dining Room

Session Time: 2:00 p.m.

Organizers - Mehrdad Ehsani, Texas A&M Univ.

Time	Paper No.	Title
2:00 p.m.	2005-01-3449	Experimental Vibration Assessment of a Fuel Cell Transit Bus <i>Uriel A. Rosa, Zack Zoller, Siva Gunda, Paul Erickson, Univ of California-Davis</i>
2:25 p.m.	2005-01-3451	Constant Power Load Characteristics in Multi-Converter Automotive Power Electronic Intensive Systems <i>Alireza Khaligh, Geoffrey A. Williamson, Claudio Rivetta, Illinois Institute of Technol</i>
2:50 p.m.	ORAL ONLY	Hybrid Fuel Cell/Battery Electric Scooter <i>Said Al-Hallaj, Illinois Institute of Technology</i>
3:15 p.m.	2005-01-3454	Energy Management for Controlling Hybrid Systems (Written Only -- No Oral Presentation) <i>Armin Engstle, Reiner Egglihuber, Hans-Georg Herzog, Technical University of Mun</i>
4:10 p.m.	2005-01-3455	Integration of Eddy-Current and Friction Brakes in Conventional and Hybrid Vehicles <i>Sebastien Emmanuel Gay, Texas A&M Univ.; Mehrdad Ehsani, Texas A&M Univ</i>
4:35 p.m.	2005-01-3456	Hybrid Powertain -- A System Engineering Solution <i>Xiaoguo Tang</i>
5:00 p.m.	2005-01-3457	Interdependence of System Control and Component Sizing for a Hydrogen-Fueled Hybrid Vehicle <i>Neeraj S. Shidore; Maxime Pasquier, Argonne National Laboratory</i>
	2005-01-3450 CANCELLED	Fuel Processing Catalysts and Sensors for Fuel Cells and Hydrogen <i>Jonathon Foreman, Nextech Materials</i>
	2005-01-3452	Effects of an Ultra-Capacitor and Battery Energy Storage System in a Hybrid Electric Vehicle (Written Only -- No Oral Presentation) <i>Jesse Park, Besty Raju, Ali Emadi, Illinois Institute of Technology</i>
	2005-01-3453 CANCELLED	On the Suitability of Permanent Magnet Brushless DC Motor Drives for Automotive Propulsion Applications <i>Ali Emadi, Illinois Institute of Technology</i>
	2005-01-3458	The Design of a Tri-Fueled Hybrid SUV (Written Only -- No Oral Presentation) <i>Brendan Connors</i>
	2005-01-3459	Design Improvements on a Vee Belt CVT and Application to a New In-line CVT Concept (Written Only -- No Oral Presentation) <i>Elizabeth A. Solik, Andrew A. Frank, Paul A. Erickson, Univ of California-Davis</i>

Thursday September, 8

Advanced Engine Technology

Session Code: FTT5 9:00 a.m.

Room HUB Armour Dining Room Session Time:

Organizers - Mehrdad Ehsani, Texas A&M Univ.

Time	Paper No.	Title
9:00 a.m.	2005-01-3445	Real-life Emission Measurement of Light Duty Trucks with CNG, Diesel and Gasoline Engines <i>Ernst Pucher, Jan Mueller, Vienna University of Technology</i>
9:25 a.m.	2005-01-3446	Combustion Stability of Natural Gas Engine Operating at Idle <i>Ji Moon Kim, Myongji College; Sung Bin Han, Induk Institute of Technology; Robert Univ. of Auckland</i>
9:50 a.m.	2005-01-3448	Impact of Reduced Rotating Mass to Throttle Response in a CBR600F4i Engine <i>Timothy James Johnson, Bryan J. Campbell, Lawrence Technological Univ.; Gabriel Gibson; Badih Ali Jawad, Lawrence Technological Univ.</i>
	2005-01-3447	A Composite Two Stroke Cycle as a Platform for Developing a New Class of Two-Stroke Internal Combustion Engines (Written Only -- No Oral Presentation) <i>Pao C. Pien, Retired</i>

Thursday September, 8

Advanced Vehicle Engines

Session Code: FTT7

Room HUB Armour Dining Room Session Time: 11:10 a.m.

Organizers - Mehrdad Ehsani, Texas A&M Univ.

Time	Paper No.	Title
11:10 a.m.	2005-01-3460	Experimental Study for Diesel Rotary Engine with Common Rail Injection System <i>Jinjun Wu</i>
11:35 a.m.	2005-01-3461	High Efficiency Vehicular Gas Turbines <i>Robin Mackay, Agile Turbine Technology</i>
12:00 p.m.	2005-01-3462	Analysis of the 3rd Generation IC-Stirling Engine <i>Francisco Ruiz, Illinois Institute of Technology</i>
	2005-01-3463	A Composition-Based Model for Particulate Matter Emission of Direct Injection Diesel Engines (Written Only -- No Oral Presentation) <i>Pi-qiang Tan, Tongji University; Kany-yao Deng, Shanghai Jiaotong Univ; Di-ming L Wan, Tongji Univ</i>

Thursday September, 8

Advanced Vehicle Concepts

Session Code: FTT8

Room HUB Armour Dining Room Session Time: 2:00 p.m.

Organizers - Mehrdad Ehsani, Texas A&M Univ.

Time	Paper No.	Title
2:00 p.m.	2005-01-3464	Pulse Discharge Power Availability of a Lithium-Ion Hybrid Vehicle Battery Pack <i>Kandler Smith, Chao-Yang Wang, Pennsylvania State Univ.</i>
2:25 p.m.	2005-01-3465	Automotive Interprofessional Projects (IPRO) Program at Illinois Institute of Technology <i>Sadia Sadiq, Thomas M. Jacobius, Ali Emadi, Illinois Institute of Technology</i>
2:50 p.m.	2005-01-3466	Performance Improvement In Automotive Engines Using Vapour Absorption Refrigeration System for Air Conditioning <i>Jayaraman Venkatesan, Bhargav V.K, V M Praveen, Bharat B Moorthy, Sri Venkatesan, College of Engineering</i>
3:15 p.m.	2005-01-3467 ORAL ONLY	Investigating HEV Vehicle Fuel Economy Sensitivity Under More Aggressive Driving <i>Michael Duoba, Argonne National Laboratory</i>
4:10 p.m.	2005-01-3468	Enhancement of Torque Pulsation and Acoustic Response in SRM Drives via Bipolar Excitation <i>Chris S Edrington, Arkansas State University; Mahesh Krishnamurthy, Univ. of Texas-Arlington; Babak Fahimi, Univ of Texas-Arlington</i>
	2005-01-3469 CANCELLED	A Survey on Automobile Collision Avoidance System <i>Neeraj Singh Gautam</i>

Friday September, 9

Vehicle Power Plant Management

Session Code: FTT9

Room HUB Armour Dining Room

Session Time: 9:00 a.m.

Organizers - Mehrdad Ehsani, Texas A&M Univ.

Time	Paper No.	Title
9:00 a.m.	2005-01-3474	Battery Charge Equalization - State of the Art and Future Trends <i>Mehdi Ferdowsi, Univ. of Missouri-Rolla; Andrew Baughman, Univ of Missouri-Rolla</i>
9:25 a.m.	2005-01-3475	Development of a Vapor Compression Air Conditioning System Utilizing the Waste Heat Potential of Exhaust Gases in Automobiles <i>Rajesh Chellappan Iyer, Sarvajanic College of Engg & Tech.</i>
9:50 a.m.	2005-01-3476	New Generation Integrated Automotive Thermal System <i>Amir Jokar, Mohammad H Hosni, Steven J. Eckels, Kansas State Univ</i>
10:15 a.m.	2005-01-3477	Effects of Varying Driving Schedules on the Drive Train Efficiency and Performance Characteristics of a Parallel Diesel-Hybrid Bus <i>Ali Emadi, Illinois Institute of Technology</i>
	2005-01-3478	Development and Validation of Control Algorithm for Fuel Cell Transit Bus (Written Only -- No Oral Presentation) <i>Liang Chu</i>

Friday September, 9

Advanced Modeling and Controls

Session Code: FTT11

Room HUB Armour Dining Room

Session Time: 11:10 a.m.

Organizers - Mehrdad Ehsani, Texas A&M Univ.

Time	Paper No.	Title
11:10 a.m.	2005-01-3479	Dynamic Simulation of a Light-Weight, Low-Drag, Hybrid-Electric Sports Coupe <i>Andrew Simpson, Geoffrey Walker, Univ. of Queensland; Matthew Greaves, Ben G GWG Creative Engineering; David Finn, Tritium Pty Ltd</i>
11:35 a.m.	2005-01-3480	Experimental Investigation and Modeling of Cycle by Cycle Variations in a Gas Fuelled SI Engine <i>Ramesh A, IIT-Madras; Vinodmallikarun Shigarkanthi, Indian Institute of Technology Ekambaram Porpatham</i>
12:00 p.m.	2005-01-3481	Validation of a Parametric Vehicle Modelling Tool Using Published Data for Prototype and Production Vehicles with Advanced Powertrain Technologies <i>Andrew Simpson, Univ. of Queensland</i>
	2005-01-3482 CANCELLED	Study on Control Algorithm of Traction Control System for Heavy-Duty Vehicle (Written Only -- No Oral Presentation) <i>Liang Chu</i>

Friday September, 9

Vehicle Dynamics

Session Code: FTT10

Room HUB Armour Dining Room

Session Time:

Organizers - Mehrdad Ehsani, Texas A&M Univ.

Time	Paper No.	Title
	2005-01-3470 CANCELLED	Dynamic Stability Control of Automobiles with Eddy-Current Brakes <i>Sebastien Emmanuel Gay, Texas A&M Univ.</i>
	2005-01-3471	Cornering Control Model for Driver in Drift Cornering (Written Only -- No Oral Presentation) <i>Hiromichi Nozaki, Kinki University</i>
	2005-01-3472	Effect of Differential Steering Assist on Drift Running Performance (Written Only -- No Oral Presentation) <i>Hiromichi Nozaki, Kinki University</i>
	2005-01-3473	Influence of Steering Wheel Gear Ratio on Drift Control (Written Only -- No Oral Presentation) <i>Hiromichi Nozaki, Kinki University</i>