

PROGRAMME SCHEDULE
INTERNATIONAL CONFERENCE ON SUSTAINABLE MOBILITY 2010 (ICSM2010)
29th November 2010 - 3rd December 2010
SERI PACIFIC HOTEL, KUALA LUMPUR, MALAYSIA

29th November 2010

Day - 1 : Pre-Conference 1 & 2 Workshop

Chairperson : Assoc. Prof. Dr. Ishak Aris

Venue: Seraya Room / Meranti Room, Level 4

8.00am-9.00am	Registration at Foyer, Level 4	
9.00am-10.30am	Fundamentals and Advances in Vehicle Power Train by Dr. Srithar a/l Rajoo	
10.30am-11.00am	Refreshments	
11.00am-12.30pm	Fundamentals and Advances in Vehicle Power Train by Prof. Dr. Ricardo Martinez-Botas	
12.30pm-2.00pm	Lunch	
	Pre-Conference 1	Pre-Conference 2
2.00pm-4.30pm	Pre-Conference Workshop on Engine Downsizing by Dr. Srithar a/l Rajoo, Universiti Teknologi Malaysia, Malaysia	Pre-Conference Workshop on Hybrid & Electrical Vehicle by Prof. Dr. Ricardo Martinez-Botas, Imperial College, London
4.30pm-5.00pm	Refreshments	
5.00pm	End of Day - 1	

30th November 2010

Day - 2 : SAE Technical Talk

Chairperson (AM) : Ir. Wan Rizaluddin Abdullah

Chairperson (PM) : Mohammad Sufian Lau Abdullah

Venue: Seraya Room, Level 4

8.00am-9.00am	Registration at Foyer, Level 4	
9.00am-10.00am	SAE Technical Talk 1 Hybrid Talk Electrical Vehicle by Prof Dr. Ricardo Martinez-Botas Imperial College, London	
10.00am-10.30am	Refreshments	

10.30am-11.30am	SAE Technical Talk 2 Development of Electric Light-duty Trucks by Mr. Klaus Kersting, Product Manager EV/HEV, Applus IDIADA, Spain
11.30am-11.45am	Short Break
11.45am-12.45pm	SAE Technical Talk 3 Renewable Fuels as the Green Way to a Sustainable Road Transport by Dr. Alberto A. Boretti School of Science and Engineering, University of Ballarat, Australia & Department of Mechanical and Aerospace Engineering, Missouri University of Science and Technology, Rolla, MO, (United States)
12.45pm-2.00pm	Lunch
2.00pm-3.00pm	SAE Technical Talk 4 Future Active Safety System by Prof Dr. Masato Abe Kanagawa Institute of Technology, Japan
3.00pm-4.00pm	SAE Technical Talk 5 Road Vehicle Aerodynamics: An Overview by Prof Dr. Simon Watkins RMIT University, Australia
4.00pm-4.15pm	Refreshments
4.15pm-5.15pm	SAE Technical Talk 6 Power Train Technology by Dr. Sashi Balakrishnan Mercedes-Benz, UK
5.15pm	End of Day-2
8.00pm-10.00pm	Pre-Registration for Conference at Anggerik Room, Level 3
INTERNATIONAL CONFERENCE ON SUSTAINABLE MOBILITY 2010 (ICSM2010) SERI PACIFIC HOTEL, KUALA LUMPUR, MALAYSIA (1st December - 3rd DECEMBER 2010)	
1st DECEMBER 2010 (Wednesday) Day - 3 : CONFERENCE	
Venue: Pacific Ballroom, Level 2	
8.00am-9.15am	Conference Registration
9.15am-9.20am	Welcoming Address by ICSM2010 Organising Chairman
9.20am-9.30am	Welcoming Remarks by Group Managing Director, Proton Holdings
9.20am-10.00am	Opening Ceremony: Officiated by Yang Amat Berbahagia Tun Dr. Mahathir Mohamed, Former Prime Minister of Malaysia
10.00am-10.45am	Keynote Address 1 by Y.B Dato' Sri Peter Chin Fah Kui, Minister of Ministry of Energy, Green Technology and Water Malaysia "Moving towards Green Technology"
10.45am-11.15am	Refreshments / Press Conference

11.15am-12.00pm	<p align="center">Keynote Address 2 by Eric G. Holthusen, Fuels Technology Manager, Shell Global Solutions (Malaysia) Sdn. Bhd. “Challenges of Future Mobility” Chairperson: Dr Hans Kerschbaum</p>		
12.00pm-1.00pm	<p align="center">Parallel Session 1</p>		
	<p align="center">BALLROOM HALL (1 A), Level 2 Chairperson : Prof. Dr. Masato Abe Co-Chairperson : Ms. Jeya Palakrishnar</p>	<p align="center">BUNGA KENANGA ROOM (1B), Level 3 Chairperson : Assoc. Prof. Dr. Mohd Azman Z. Abidin Co-Chairperson : Mohammad Sufian Lau Abdullah</p>	<p align="center">BUNGA RAYA ROOM (1C), Level 3 Chairperson : Prof. Dr. Simon Watkins Co-Chairperson : Ms. Audrey Woon Su Fern</p>
12.00pm-12.20pm	<p>Applying the Digital Tachography in Road Transport in the Light of the Level of its Implementation in European Courtiers. Marcin Rychter, Poland</p>	<p>Research on Skid Control of Small Electric Vehicle with Hydraulic-Mechanical Hybrid Brake System (Effect of Rolling Characteristics) Mohamad Heerwan Bin Peeie, Hirohiko Ogino, Japan</p>	<p>Effect of Traffic Volume and Composition on PCU Value of Vehicles under Heterogeneous Traffic Conditions. V. T. Arasan, P. S. Praveen, India</p>
12.20pm-12.40pm	<p>Investigation of the Effect of Engine Performance, Combustion Characteristics and Emissions of RON 95 and RON 97 in Spark Ignition Engine. H. G. How, T. I. Mohamad, W. A. W. Ghopa, Y. Ali, S. Abdullah, A. A. A. Fauzi and S. Marhamah, UKM</p>	<p>Optimum Battery Size for Electric Vehicles with Particular Focus on Battery Degradation R. F. Martínez-Botas, N. P. Brandon, C. F. Lorf, UK</p>	<p>Inclination Detection Using Accelerometer for Efficient Power Management in E-Bike Application Mohd Nadzri Mamat, M.N. Abdullah, S. Kaharuddin, USM</p>
12.40pm-1.00pm	<p>Airbag Simulation HyperWorks – Radioss Solution Jean-Michel Terrier & Marian Bulla, France</p>	<p>Performance and Exhaust Emissions of a Diesel Engine Using Waste Frying and Castor Pyrolysis Oil Babita, S. Murugan, India</p>	<p>Non linear multi layer control of semi-active suspension with MR fluid Sajad Aghasizade, B. Mashhadi, Iran</p>
1.00pm-2.00pm	<p align="center">Lunch</p>		
2.00pm-2.45pm	<p align="center">Keynote Address 3 by Prof Dr. Ricardo Martinez Botas (Imperial College, London) “Advances in Green Technology-Boosting needs for Downsize Low Carbon Engines” Chairperson: Prof. Dr. Masato Abe</p>		
2.45pm-4.00pm	<p align="center">Parallel Session 2</p>		
	<p align="center">BALLROOM HALL (2A), Level 2 Chairperson : Dr. Alberto A. Boretti Co-Chairperson : Mr. Mohd Khair</p>	<p align="center">BUNGA KENANGA ROOM (2B), Level 3 Chairperson : Prof. Dr. Masato Abe Co-Chairperson : Mr. Fairuz</p>	<p align="center">BUNGA RAYA ROOM (2C), Level 3 Chairperson : Dr. Hans Kerschbaum, BMW Co-Chairperson : Ms. Jeya Palakrishnar</p>

2.45pm-3.05pm	Past, Current and Future Development of Formula SAE at RMIT. Simon Watkins, Australia	Using Ionic Conductors to getting the Diagnostic Signal for Monitoring of Catalytic Converter In support Spheric Conditions in CI Engine's Exhaust Pipe Marcin Rychter, Poland	Sustainable Mobility Through Aerodynamic Perspective Dr. Hans Kerschbaum, BMW, Germany
3.05pm-3.25pm	Manufacturing of Thin Disk Ni-O/YSZ Using Compaction Method as Anode Solid Oxide Fuel Cell Sulistyo S.S. Ariffin, Shahrudin M, UTHM	Combustion Characteristic of Compressed Natural Gas in a Spark Ignition Engine using Spark Plug Fuel Injector under Various Operating Conditions. T. I. Mohamad, H. G. How, S. Abdullah, UKM	A System Architecture and its Protocol to Ease the Traffic flow at Road Intersections Maythem. K. Abbas, M. N. Karsiti and M. Napiah, UTP
3.25pm-3.45pm	Advanced Sustainable Powertrain Technologies Dr Sashi Balakrishnan, UK	A robust controller for anti lock brake based on quantitative feedback theory. Behrooz Mashadi, Masoud Goharimanesh, Sajad Aghasizadeh, Iran	Bio-diesel from Mustard Oil: A Renewable Alternative Fuel for Small Diesel Engines. M.M. Alam, Z. M. Hasib, K.A. Rahman, Md. S. Islam, Bangladesh
3.45pm-4.00pm	An Investigation of Renewable Plant derived Biodiesel as Potential Blendstocks for Transportation Fuel Dr. Mani Natarajan, USA	Dynamic Thermal Model for Proton-Exchange Membrane Fuel Cell M. Idres, R. Kafafy, IIUM	Multi-Objective Optimization Based on Realistic Quarter Vehicle Model. J. Y. Tey, R. Ramli, M. A. B. Zainul Abidin, A. Alias, and S. S. Mukhtar, PROTON / UM
4.00pm-4.15pm	Refreshments		
4.15pm-5.30pm	Parallel Session 3		
	BALLROOM HALL	BUNGA KENANGA ROOM (3B), Level 3 Chairperson : Dr. Alberto A. Boretti Co-Chairperson : Ms. Jeya Palakrishnar	BUNGA RAYA ROOM (3C), Level 3 Chairperson : Dr. Hans Kerschbaum, BMW Co-Chairperson : Mr. Mohd Khair
4.15pm-4.35pm		Degradation Reaction of Amines and Alkanolamines in Sour Gas Processing Plant Md. Sakinul Islam, Rozita Yusoff, Brahim Si Ali. UM	Characterisation of Engine-out Emissions from a Light-duty Diesel Engine when Fuelled with Biodiesel Fuels. J.-H. Ng, H. K. Ng, S. Gan, Nottingham Malaysia

4.35pm-4.55pm	Ballroom setup for Gala Dinner	Driver Model Based Handling Quality Evaluation Masato Abe, Japan	PERFORMANCE COMPARISON BETWEEN CARBURETOR AND RETROFIT FUEL INJECTION SYSTEM FOR A S.I. ENGINE. M.F.Hushim,A. A. Mohamad Zen, M. F. M. Ali, A. N. A. Razap , M. A. H. Mohamad, A. J. Alimin , UTHM
4.55pm-5.15pm		Artificial Neural Networks Modelling of Engine-Out Responses for a Light-duty Diesel Engine when Fuelled with Biodiesel. H. Mohamed Ismail,C.W Queck, H.K Ng and S. Gan Nottingham Malaysia	Effect of oxygen enriched air and water injection on the performance and emission a DI Diesel Engine. Prashant,Jangde,S.Murugan India
5.15pm-7.45pm	BREAK / REHEARSAL		
7.45pm-10.00pm	Gala Dinner & 1Malaysia Cultural Show		
2nd DECEMBER 2010 Day - 4 : CONFERENCE			
9.00pm-10.00pm	Parallel Session 4		
	BALLROOM HALL (4A), Level 2 Chairperson : Dr. Srithar a/I Rajoo Co-Chairperson : Mr. Andrew Choe	BUNGA KENANGA ROOM (4B), Level 3 Chairperson : Ir. Azmi Osman, Petronas Research Co-Chairperson : Mr. Tan Chee Lih	BUNGA RAYA ROOM (4C), Level 3 Chairperson : Ir. Tn. Hj. Tajul Zahari Abu Bakar, Proton Co-Chairperson : Mr. Md Ridzuan Md Yusof, Proton
9.00am-9.20am	Advanced Internal Combustion Engine and Power Train Technologies for Minimum Ecological Footprint of Transportation. Dr. Alberto A. Boretti, Australia	Low Viscosity Crude Palm Oil (CPO) Fuel for Diesel Engines via Centrifugation Technique. Zainal Abidin Kamarul Baharin,R.Zailani, M. F. M. Zaki and K. H. K. Hamid, UiTM	Modelling of Soot Structure in a Light-duty Diesel Engine using Integrated CFD and Reduced Chemical Kinetic Mechanism with Parallel Computation. K. M. Pang,H. K. Ng , S. Gan, Nottingham Malaysia
9.20am-9.35am	Conceptual Design of a Remote-Controlled Chemical Applicator for Flooded Paddy Field M. S. Abubakar,D. Ahmad, S. Samsuddin, M. Norhisam, UPM	Yaw Disturbance Cancellation Using Active Front Wheel Steering Control M.H. Zakaria,K. Hudha, UTeM	Sustainable green vehicle rickshaw at Dhaka city Rumana Rashid,Mohd Hamdan Ahmad , Sayem khan , UTM
9.35am-10.00am	Design and Evaluation of Regenerative Braking on Conventional Passenger Vehicle N. Hilman,M. Fadzil, M. Hamdi and L.H. Saw, UM	Design and Development of Hydraulic Axial Piston Unit M.Z. Norhirni,M. Hamdi, L.H. Saw, S. Nurmayana Musa, UM	Novel Approach to Stirling Engine Design for Possible Application as Series Hybrid Vehicle's Power Train Wong Hong Mun, UTAR
10.00am-10.30am	Refreshments		

10.30am-11.15am	<p style="text-align: center;">Keynote Address 4 Associate Prof. Dr. Ishak Aris (Universiti Putra Malaysia) “Compressed Natural Gas Direct Injection Vehicle: Collaboration between Malaysian Universities, Malaysian Government and Industries” Chairperson: Dr Sashi Balakrishnan</p>		
11.15am-1.00pm	Parallel Session 5		
	BALLROOM HALL (5A), Level 2 Chairperson : Prof. Dr. Ahmad Farhan Sadullah Co-Chairperson : Mr. Khairil Anwar bin Abu Kassim, MIROS	BUNGA KENANGA ROOM (5B), Level 3 Chairperson : Prof. Ir. Dr. Azhar Abdul Aziz Co-Chairperson : Mr. Mohammad Sufian Lau Abdullah	BUNGA RAYA ROOM (5C), Level 3 Chairperson : Ir. Azmi Osman, Petronas Research Co-Chairperson: Mr. Akhtar Sulaiman
11.15am-11.35am	Laser induced photo catalysis of electrolyte during plasma electrolysis of drinking water Muhammad Shahid,Amin-Uddin Hazrat, Salma Baig,Irfan Ahmed Memon, Aamir, UTM	Development of a Fuel Efficient Hybrid Engine towards Green Technology Ataur Rahman,Waqar Asrar, AKM Mohiuddin and Kassim Abdullah, IIUM	ENGINE HEAT MANAGEMENT IN MODERN ENGINES; A CRUCIAL ENABLER FOR SUSTAINABLE MOBILITY AND POWER GENERATION Ir. Azmi Osman, Petronas Research
11.35am-11.55am	Flow simulation in Diesel Engine with Unstructured Mesh By using CFD. M.Ghiji,NM.Adamb, N.Abdul Aziza,H.R.Ghezavat, UPM	Computational Study of Injection Parameters and the Effects on In- Cylinder Combustion and Emissions Formation Processes. S.M. Tan,H.K. Ng, Nottingham Malaysia	Removal of Free Fatty Acid from Sludge Palm Oil Via Acid Catalyzed Reaction for Biodiesel Production Adeeb Hayyan,Md. Zahangir Alam, Mohamed E.S. Mirghani, NassereIddeen A. Kabbashi, IIUM
11.55am-12.15pm	Effect of Angular Rear Bumper on the Reduction of Drag Coefficient on Ahmed Body. Behrang. Daryakenari,S. Abdullah, R. Zulkifli, E.A. Sundadarajan, A. Shamsudeen and F.Y. Lim, UKM	Deadzone Compensator For Pulley Position Control Of An Electro-Mechanical Dual Acting (EMDAP) CVT system B. Supriyo,K. B. Tawi , H. Jamaluddin, S. Ariyono, UTM	Indoor Air Quality Measurement in a Chassis Dynamometer Room. Alaeddin Mohamed,A. M. Ejledi, M. H. Amran, M. A. H. Mohamad1 and S. Othman, UTHM
12.15pm-12.35pm	Simulation of crash analysis of parallel hydraulic hybrid vehicle based on High Precision Nonlinear Finite Element Analysis. L. H. Saw,J. H. Khoo, M. Hamdi, M.Z. Norhirni and N. Hilman, UM	Modeling, Simulation and Validation of 7-DOF High Mobility Multipurpose Wheeled Vehicle (HMMWV). Ahmad Lukman Bin Hitam,Khisbullah Hudha, and Fauzi bin Ahmad, UTeM	Modeling, Simulation and Control of 3-DOF Motion Platform for Vehicle Dynamic Simulator by Using Slider Crank Mechanism Fauzi Ahmad,Khisbullah Hudha, and Mohd Zakaria Mohammad Nasir , UTeM

12.35pm-1.00pm	Vehicle Exhaust Energy Recovery: Methods and Numerical Analysis. Srithar Rajoo,A.Romagnoli,Angie Lean ,R.F. Martinez-Botas, UTM	Urban Car Cabin exposure to Carbon monoxide in Selangor, Malaysia. Ghezavati Hra,Adam NMc ,Jaafar AAd ,Yaghoubi M.Ae ,Hedayatzadeh.Mb,Ghigi,Ma, UPM	Computational Study of Injection Parameters and the Effects on In-Cylinder Combustion and Emissions Formation Processes. S.M. Tan and H.K. Ng, Nottingham Malaysia
1.00pm-2.00pm	Lunch		
2.00pm-3.30pm	Parallel Session 6		
	BALLROOM HALL (6A), Level 2 Chairperson : Ir. Wan Rizaluddin Abdullah Co-Chairperson : Ms. Jeya Palakrishnar	BUNGA KENANGA ROOM (6B), Level 3 Chairperson : Mr. Md Ridzuan Md Yusof Co-Chairperson : Ms. Audrey Woon Su Fern	BUNGA RAYA ROOM (6C), Level 3 Chairperson : Mr. Khairul Anwar (MIROS) Co-Chairperson: Mr. Akhtar Sulaiman
2.00pm-2.20pm	Disc Brake Squeal Suppression Through Structural Modifications C.L. Saw,W.M.M.W Harujan, A.R. Abu-Bakar, B.Abd-Ghani and S.A. Syed-Amear , UTM	Dynamic Simulation of Vehicle Crosswind Sensitivity for Various Rear Slant Angle. Suhaimi Mansor,M. R. Rahman, UTM	Hardware-in-the-loop Simulation of Automatic Steering Controlfor Lanekeeping, Double Lane Change, and Sine Steer Maneuvers. Em Poh Ping, Khisbullah Hudha and Hishamuddin Jamaluddin , UTeM
2.20pm-2.40pm	Development of Environmentally Friendly Wireless Vehicle Communication System Using FPGA Ahmad Fairuz Muhd Amin,Ishak Aris , Izhal b. Abdul Halin , Raja Syamsul Azmir Raja Abdullah , Ratna Kalos Zakiah Sahbudin and Mohamad Khazani Abdullah, UPM	Time Frequency Analysis and Jury Testing For Door Closing Sound Development. Zainal Fitri Zainal Abidin,Khairi Hj Muhammad, PROTON	Effect of antioxidant on the corrosiveness of palm biodiesel. M. A. Fazal, A. S. M. A. Haseeb, H. H. Masjuki, UM
2.40pm-3.00pm	Theoretical investigation of vehicle rollaway. M. R. Ishak,A.R. Abu-Bakar, J. Mohd Taib, UTM	Study on performance of motorcycle fueled by LPG. Iskandar. Meran,M. Y. Sulaiman, UTeM	SURFACE HARDENING OF PURE ALUMINUM SUBSTRATE BY Q-SWITCHED ND-YAG LASER ALLOYING WITH IRON Yusef Ab. Alwafi,Noriah Bidin , Rosli Bin Hussien, UTM
3.00pm-3.20pm	Quality Improvement in three-Way Catalytic Converter (TWC) System using failure Modfe and Effect Analysis (FMEA) Method. Syed Najib Syed Bahari,Wan Ahmad Wan Yusoff, Hadi Purwanto, UIA	Jatropha Oil Emulsion as Diesel Fuel Wira J.Y,Mazlan S. ,Syahrullail S, Gwee K.S, UTM	Performance and Emission Characteristics of DI Diesel Engine Using Orange Oil with EGR. Avinash Ranjan Patnaik,Pritinika Behera, S. Murugan India
3.30pm-4.15pm	Keynote Address 5 by Prof Datuk Ir. Dr. Hj Ahmad Zaidee Laidin (Vice President of Academy Science Malaysia) "Green Technology in Global Warming" Chairperson: Prof. Dr. Simon Watkins		

4.15pm-5.15pm	<p style="text-align: center;">Forum: On Moving towards Green Technology, Are We Ready? Moderator: Assoc. Prof.Dr Ishak Aris Panel Forum: 1. Director General, Ministry of Natural Resources and Environment 2. COO (Green Technology Corporation) 3. Director General, Road Transport Department (JPJ), Malaysia 4. Managing Director of Proton 5. Vice President of Academy Science Malaysia <i>* subject to change</i></p>
5.15pm-5.30pm	Closing Ceremony
5.30pm-6.00pm	Refreshments
3rd DECEMBER 2010 Day - 5 : TECHNICAL VISIT PROTON R & D	
8.00am-8.15am	Gather at Hotel Lobby / Depart to PROTON
9.00am-11.00am	Arrive at PROTON R&D, Plant & Test Track
11.00am-12.00pm	Depart back to Seri Pacific Hotel , Kuala Lumpur
End of ICSM2010	