

Technical Session

Advanced Combustion

Organizers:

Yasuo Moriyoshi, (Chiba University); Jaal B Ghandhi, (University of Wisconsin Madison)

20097043

Development of NOx Reduction System Using Exhaust Valve Controls for Motorcycle Small Engine Kazuo Fujihara, Yamato Nakamizo, Mitsuru Kojima, Teruhide Yamanishi, (Honda R&D Co., Ltd.)

20097045

Simulation and Experimental Investigations of a Direct-Injection Combustion System for High Speed – High Performance Engines

Stephan P Schmidt, Martin Abart, Oliver Schögl, Alexander Trattner, Roland Kirchberger, Helmut Eichlseder, (Graz University of Technology)

20097047

Effective Engine Downsizing Through the Use of Compression Ignition 2-Stroke Engine with Novel Combustion Cycle Involving Oxygen and Water

Azmi Osman, (PETRONAS Research Sdn.Bhd.)

20097068

Testing and Evaluation of Fuel Properties Effect on High Speed Engine Performance Zulkhairi Salleh, Chan Ming Yau, Wan Ahmad Nadzri, (PETRONAS)

20097095

The Effect of Corona Discharge on Pre-Mixed Combustion

Koji Yoshida, Yusuke Soma, (Nihon University);

20097119

Very Lean and Diluted SI Combustion Using a Novel Ignition System with Repetitive Pulse Discharges

Tatsuya Kuboyama, Yasuo Moriyoshi, (Chiba Univ.); Eiki Hotta, (Tokyo Inst. of Tech.); Yuichiro Imanishi, (NGK Insulators); Naohiro Shimizu, (NGK Insulators); Kimitoshi Tanoue, (Oita Univ.); Katsuji Iida

20097135

Effect of Boost Pressure on Engine Performance and Exhaust Emissions in Direct-Injection Compressed Natural Gas (CNG-DI) Spark Ignition Engine

Girma Tadesse, (Universiti Teknologi PETRONAS)

20097144

The Diffusion Combustion Induced by the High Voltage Electrical Discharge - The Influence of Fuel Property on Combustion Behavior

Yohsuke Takeshita, Koji Yoshida, (Nihon University)





Koji Yoshida, (Nihon University); Tomoo Shiozaki, (Honda R&D Co.,Ltd.); Tadao Okazaki, (Kubota Corporation); Paul Richards, (Innospec Ltd.)

20097026

Experimental Investigation of Performance and Emissions of a Sequential Port Injection Compressed Natural Gas Converted Engine

How Heoy Geok, Taib Iskandar Mohamad, Shahrir Abdullah, (Universiti Kebangsaan Malaysia)

20097038

Development of a 1.2L MPI Bi-fuel (LPG-Gasoline) Engine

Nilesh M Kankariya, Viswanatha H.C, Muthu Shanmugam R, Srinivasan L, Aashish B Jadhav, (Tata Motors Ltd.); Christian Dias, Jacques Honvault, Patrice Nicolas, (Valeo EMS)

20097040

Experimental Studies of Bio-Diesel Fuels on Pollutant Emissions from Small Automotive Diesel Engine

Nafis Ahmad, A. Y. F. Bokhary, (King Abdulaziz University); M. Ashar, U. Akhtar

20097048

Study on Single Cylinder Engine for Performance and Exhaust Emission Characteristics with Diesel, Bio Diesel, LPG and CNG as a Fuel

Syed Kaleemuddin Mohiuddin, (Greaves Cotton Limited); Ambaprasad Rao, (National Institute of Technology Warangal)

20097050

Experimental Performance and Emission Analysis of Bio Diesel Operated C.I Engine Sundara Pandian, G. Devaradjane, (Anna University)

20097063

A Study of IDI 2-Stroke Cycle Compression Ignition Engine with DME

Noritaka Yoshikawa, Koji Yoshida, (Nihon university); Tatsuaki Suzuki, (Hiroshima Institute of Technology)

20097066

Ignition and Combustion Characteristics of Biomass Gas in a HCCI Engine

Yudai Yamasaki, Masanobu Kanno, Yasuhiro Taura, Shigehiko Kaneko, (University of Tokyo)



Cold Start Characteristics of an Ethanol Engine

Chinda Charoenphonphanich, Wittawat Imerb, (King Monkut's Institute of Technology Ladkrabang); Nuwong Chollacoop, (National Science and Technology Development Agency); Katsunori Hanamura, (Tokyo Institute of Technology)

20097100

Influence of Various Biodiesel Fuels on Diesel Engine Performance

Masashi Ono, Masato Nakajima, Koji Yoshida, Hideo Shoji, Akira Iijima, (Nihon University)

20097106

The Use of Special Blends of Biofuel and Additives to Improve Performance and Exhaust Emission in a Single Cylinder Diesel Engine

Saifullah Md Ghazaly, H. H. Masjuki, M. Husnawan, M. A. Kalam, T. M. I. Mahlia, (University of Malaya)

20097111

Investigations on Operation of CI Engine Using Liquefied Petroleum Gas and Mahua Biodiesel in Mixed Fuel Mode

Kapilan Natesan, (National Institute of Technology Karnataka); T. P. Ashok Babu, (NITK University), R. P. Reddy, (Reva Institute of Technology)

20097113

Flame Propagation of Bio-Ethanol in a Constant Volume Combustion Chamber

Chinda Charoenphonphanich, Prathan Srichai, (King Mongkut's Institute of Technology Ladkrabang)

20097115

Feasibility Study of Simaruba Glauca and Its Biodiesel Blends as an Alternate Fuel in a CI Engine Naga S. Sarada, (JNT University); JN Gupta, Kalyani K. Radha, M. Shailaja, AV Sitaramaraju, (JNTU College of Engineering)

20097116

Impact of Using Ethanol Fuel in Conventional Motorbike

Chinda Charoenphonphanich, Tanawat Srirugsa, (King Mongkut's Institute of Technology Ladkrabang)

20097117

Performance Evaluation of Low Heat Rejection Diesel Engine with Waste Fried Vegetable Oil Naga S. Sarada, (JNTU College of Engineering); R. Peraiah Chowdary, (Chaitanya Bharathi Institute of Technology); T. K. Kishen Reddy, (JNTU College of Engineering); M. V. S. Murali Krishna, (Chaitanya Bharathi Institute of Technology); Shanker, Kalyani K. Radha, (JNTU College of Engineering)



Stability, Performance and Emission Characteristics of Diesel-Ethanol Blend with Castor Oil as Additive in Variable Compression Ratio Engine

V. Arul Mozhi Selvan, R. B. Anand, M. Udayakumar, (National Institute of Technology, Tiruchirappalli)

20097123

Flow Coefficient, Tumble Ratio and Compression Ratio Investigation of a Bi-Fuel Spark Ignition Engine

Omid Samimi Abianeh, Ahmad Shafiei, (IPCO); Mostafa Mirsalim, (Amirkabir University)

20097132

Application of Newly Developed Cellulosic Liquefaction Fuel for Diesel Engines
Nin En, Koji Yoshida, Hideo Shoji, Akira Iijima, Masashi Ono, Noritaka Yoshikawa,
(Nihon University)

20097136

Performance and Combustion Characteristics Analysis of Gasoline Engine Fueled with Butanol-Gasoline Blends

Yang Jing, Wang Yong, Yang Hanqian, Liu Jingping, Zhong Zhihua, (Hunan University)

20097168

Combustion and Emissions Characteristics of a Charcoal-HFO Slurry (Bio-COM) in a Diesel Engine Valentin A. Soloiu, (Georgia Southern University); Yoshinobu Yoshihara, Kazuie Nishiwaki, (Ritsumeikan University)





Takashi Mitome, (Suzuki Motor Corporation); Geoffrey McCullough, (Queens University of Belfast)

20097092

Formula SAE Space Frame Design

Ryo Masutani, Daisuke Ito, Yasufumi Oguri, Takashi Suzuki, Sophia University

20097103

Improving Vehicle Performance by Aerodynamic Devices in Formula SAE

Mitsuru Wakabayashi, Kanako Komuro, Olivier Pedoussaut, Yasufumi Oguri, Takashi Suzuki, (Sophia University)

20097107

Inspiring a College Campus to Design, Create and Build Green Small Engine Vehicles

Robert D Garrick, Clark Hochgraf, (Rochester Institute of Technology)

20097108

Design and Construction of a High-Efficiency Electric Drivetrain for a Zero-Emissions Snowmobile

Glenn R Bower, Nick J. Rakovec, (University of Wisconsin); Adam R. Schumacher, Kevin R. King, John Deere; Daniel Bocci, (Argonne National Laboratories); Ethan K. Brodsky, Glenn R. Bower, (University of Wisconsin)

20097147

A Study on Improvement of Road Ability of A Formula SAE Vehicle

Tomoaki Kodama, Hiroyuki Oda, Takanori Furumido, Yusuke Ohira, Yasuhiro Honda, Katsuhiko Wakabayashi, (Kokushikan University)

20097154

A Trial of Engine Performance Improvement with a Turbocharger in Consideration of Intake Pipe Runner Length for Formula SAE

Yasuhiro Honda, Atsushi Kawamura, Shinya Matsumoto, Shuhei Yamamoto, Yusuke Ohira, Tomoaki Kodama, Katsuhiko Wakabayashi, (Kokushikan University)

20097169

Torque Control of the Small Gasoline Engine with the Variable Nozzle Turbine Turbo-Charger Kenichi Shimizu, Hiroshi Enomoto, Kyohei Takahashi, Wataru Sato, Hiroyasu Motoi, (Kanazawa University); Masahiro Yashiro, (Honeywell)

20097170

Effect of the Seat Belt Positions on the Passenger Injury during Low Speed Front-End Impact Tatsuya Fukui, Yusuke Miyazaki, Hiroshi Enomoto, Yasuhito Niwa, (Kanazawa University)



Decreasing of the Idle Engine Speed of the Small Gasoline Engine with PID Control

Tatsuya Fukui, Hiroshi Enomoto, Taira Maeda, Yosuke Fukunaga, Masahiro Kontani, Toshiyuki Sakai, (Kanazawa University)

20097177

Development of the Kettering University Snowmobile for the 2009 SAE Clean Snowmobile Challenge Andrew Baker, Gregory W. Davis, (Kettering University)

20097185

Combustion System Development and Analysis of a Downsized Highly Turbocharged PFI Small Engine

William P. Attard, Elisa Toulson, Ferenc Hamori and Harry C. Watson, (University of Melbourne)

20097188

Combustion System Development and Analysis of a Carbureted and PFI Normally Aspirated Small Engine

William P. Attard, Elisa Toulson, Ferenc Hamori and Harry C. Watson, (University of Melbourne)





Yasuyuki Takahata, (Yanmar Co., Ltd.); Andrew P Traxel, (Briggs & Stratton Daihatsu LLC)

20097017

Analysis of Droplets Evaporation Process of Diesel Spray at Ignition Delay Period Using Double Nano-spark Shadowgraph Photography Method

Abdullah Adam, Tomoaki Yatsufusa, Tomonori Gomi, Nobuyuki Irie, Yoshiyuki Kidoguchi, (The University of Tokushima)

20097018

Analysis of Relation between Mixture Formation during Ignition Delay Period and Burning Process in Diesel Combustion

Khalid Amir, Tomoaki Yatsufusa, Takayuki Miyamoto, Jun Kawakami, Yoshiyuki Kidoguchi, (The University of Tokushima)

20097037

Effects of Thermal Barrier Coating on Diesel Engine Driven by 1, 4 Dioxane Ethanol Diesel Blends
Chockalingam Sundarraj, (Bharathiyar College of Engineering and Technology); S. Arul,
(Panimalar College of Engineering); S. Sendilvelan, (Dr.M.G.R. Educational and Research
Institute); C. G. Saravanan, (Annamalai University)

20097057

Development of Newly Concept Diesel Engine for Industrial Use

Masato Ueda, Masayasu Takami, Tamon Tanaka, Koichi Funaki, Hideya Miyazaki, (Kubota Corporation)

20097105

Light Duty Diesel Engine: Optimization of Performances, Noxious Emission and Radiated Noise
Luigi Allocca, Consiglio Nazionale Ricerche; Costa Michela, Siano Daniela, (CNR - Istituto Motori);
Bozza Fabio, (DIME - Univ. of Napoli); Montanaro Alessandro, (CNR - Istituto Motori)

20097159

Simulation and Analysis of Combustion, Performance and Emission Characteristics of Biodiesel Fueled Low Heat Rejection Direct Injection Diesel Engine

B Rajendra Prasath, P.Tamilporai, Mohd.F.Shabir, (Anna University, Chennai); T.Senthil Kumar, (Anna University, Trichy)



S€TC 2009

Organizers:

Hidenori Arisawa, (Kawasaki Heavy Industries, Ltd.); Roy Douglas, (Queens University of Belfast)

20097024

Symmetry and Time Delayed Boundary Condition for CFD Simulation and Its Application in a Two-Cylinder Two-Stroke Engine

Dalibor Jajcevic, Raimund A. Almbauer, Stephan P. Schmidt, (Graz University of Technology); Karl Glinsner, (BRP Rotax)

20097054

Mount Force Reduction in a Scooter Engine Mounting System

Manjunath Bhat, Manjunath Bhat, (TVS Motor Company Limited); C. Padmanabhan, (Indian Institute of Technology Madras, Chennai); Kannan Marudachalam, (TVS Motor Company Limited)

20097089

Desk Evaluation Approach of Timing Chain System in Single Cylinder Engines Keiichi Dan, (Honda R&D Co., Ltd.)

20097101

Development of a Combustion Process by the Use of a Coupled 1D / 3D Simulation Strategy Oliver Schoegl, Schmidt Stephan, Abart Martin, Kirchberger Roland, Eichlseder Helmut, (Graz University of Technology)

20097130

Side Opening Intake Simulation and Validation for a Sleeve Valve Port Application Muhammad Hafidz Rahmat, Asyraf bin Ahmad, Mohd Faizan bin Ahmad Zuhdi, (PETRONAS Research Sdn. Bhd.)

20097138

Simultaneous Evaluation on Engine-cooling and Aerodynamics Performance for Motorcycle Using CFD Analysis

Toshihisa Abe, Tohru Shimizu, Yoshihiko Sunayama, Suzuki Motor Corporation

20097163

Prediction of Spark Ignition Engine Performance by Thermodynamic Simulation of a Real Cycle Mehrnoosh Dashti, (Azad University); Ali Asghar Hamidi, (University of Tehran); Ali Asghar Mozafari, (Sharif University of Technology)



Multiple-Cylinder Diesel Engine CFD Simulation Using VECTIS

Tao Bo, Gang Li, Jawahar Palaniyandi, Robert Hunt, Chris Rowe, (Ricardo UK Ltd)

20097176

Miniature HCCI Free-Piston Engine Compressor For Orthosis Application

Lei Tian, David B. Kittelson, William K. Durfee Mechanical Engineering, (University of Minnesota)

Engine Components

No Paper





Ryozo Okita, (Yamaha Motor Co., Ltd); Anthony A Szczotka, (Robert Bosch LLC)

20097014

Modeling and Control of Variable Intake Valve Actuation in IC Engines

Chun-Hsien Wu, Pei-Jen Wang, (National Tsing Hua University)

20097019

Intelligent Engine Management System for Small Handheld Low Emission Engines

Matthias Hehnke, Claus Naegele, Heinrich Leufen, Andreas Baehner, (Andreas Stihl AG & Co. KG)

20097034

Small Motorcycle Electronic Port Fuel Injection Retrofitting

Teoh Say Lai, Horizon Gitano-Briggs, (Universiti Sains Malaysia)

20097073

Low Cost Electronic Control Units for Low Emission Motorcycles Engines: a Solution Based on the Integration of Analog Functions

Marco Sacchi, Ralph Ferrara, Neng-Hau Ching, (Freescale Semiconductor)

20097118

An Ion Current Based Cylinder Pressure Estimation for Knock Detection and Control in a Single Cylinder Spark Ignition Engine

Davinder Kumar, (TVS Motor Company); A. Ramesh, MKG Babu, (Indian Institute of Technology Madras, Chennai)

20097124

Development of Electronic Throttle Control System for Motorcycle

Takuya Sakamoto, Takeru Oshima, Yoshiaki Tani, Masashi Fukuuchi, Shinichi Kuratani, (Kawasaki Heavy Industries, Ltd.)





Kazuyuki Shiomi, (Honda R&D Co., Ltd.); Nagesh S Mavinahally, (Cummins Inc.)

20097011

Preliminary Study on Design and Control of a Novel Automotive CVT Ka U Chan, P.K.Wong, H.W.Wu, (University of Macau)

20097042

Research on Extended Expansion General-Purpose Engine - Noise Characteristics Caused by Multiple Linkage System and Improvement of the Noise

Gaku Naoe, Sei Watanabe, (Honda R&D Co., Ltd.)

20097049

Improvement of a Fuel Consumption of Small Motorcycle Engine with YMJET-FI

Yoshitaka Nagai, Katsumi Suzuki, Wataru Ishii, Takanori Tamura, Hiroyuki Tsuzuku, (Yamaha Motor Co. Ltd)

20097051

Study on Similarity of Pumping Flow in Engine Crankcase

Hidenori Arisawa, Motohiko Nishimura, Hiroyuki Watanabe, Atsushi Ueshima, Kazuki Arima, Akiyuki Yamasaki, (Kawasaki Heavy Industries, LTD.)

20097059

Technologies for Enabling Concept of New-geometry V-Type 4-cylinder Engine Toru Kisaichi, (Honda R&D Co., Ltd.)

20097069

Power Restriction on Small Capacity Four Stroke Engines by Exhaust Gas Recirculation – A New Way of Speed Limiting with Reduced Exhaust Emissions?

Juergen Tromayer, Gerd Neumann, Roland Kirchberger, Helmut Eichlseder, (Graz University of Technology)

20097083

Development of Technologies for Improving Fuel Economy of Small Motorcycle Engines Satoshi Iijima, Ryo Kubota, Kazunori Kikuchi, (Honda R&D Co., Ltd.)

20097097

Studies on Reducing Cycle-by-Cycle Variations and Improving Performance of a Small Carbureted Gasoline Engine

M Krishnasamy, (TVS Motor Company Ltd); A Ramesh, MKG Babu, (Indian Institute of Technology, Madras); YR Babu, (TVS Motor Company Ltd.)



Development of the New Rotax 1200 4-TEC Powersports Engine: From Concept to Production
Dali Abdul Latiff Aw, (PETRONAS Research Sdn. Bhd.); Stefan Leiber, Ralf Rokita,
Michael Gumpesberger, (BRP-Powertrain GmbH & Co KG); Fadhli Wong Mohd Hasan Wong,
Fauzy Omar Basheer Othman, (PETRONAS Research Sdn. Bhd.)

20097129

Fuel Film Behaviour Analysis Using Simulated Intake Port

Minoru Iida, K. Yoshikawa, H. Tanaka, (Yamaha Motor Co., Ltd); G. Wang, C. Arcoumanis, (City University London)

Environmental Impacts

Organizers:

Hiromi Deguchi, (Suzuki Motor Corporations); Jeff J White, (Southwest Research Institute)

20097023

Influence Factor Analysis of Light-Off Temperature Tests for Motorcycle Catalytic Converters

Manqun Lin, Hongda Qu, Xicheng yan, Bin Jia, Jing Qin, Bin Xu, Wei Wang, (Tianjin University)

20097041

Study of the Effects on the Emission of Purge Fuel from Carbon Canister and It's Control Strategies in Motorcycles

Jing Qin, Xicheng Yan, Manqun Lin, Baohua Zhu, Junjie Zhang, (Tianjin University)

20097102

Innovative 2 Wheeler's Substrate Developments for EU5

Lorenzo Pace, (Emitec G.m.b.H.); Martin Forster, Richard Humer, Daniel Mairhörmann, Rudolf Prem, (KTM Spotmotorcycles AG); Francois Jayat, Roman Konieczny, (Emitec G.m.b.H)

20097158

Catalytic coatings for Effective Emission Reduction in Small Motorcycle Application Ansgar Wille, M. Bonifer, (W.C. Heraeus)

20097181

Canister Purge Flow Control Study on EFI Single Cylinder Small Engine

Tian Liangyun, Han Benzhong, (United Automotive Electronic System Co., Ltd.); Xi Gang, Zhang Zhen, Chen Siyuan, Thilo Leineweber, (United Automotive Electronic System Co., Ltd.); Xie Deyun, (Jianshe Motorcycle Industry Group)





Yasuyuki Muramatsu, (Yamaha Motor Co., Ltd.); Peter Kaub, (Re-Sol LLC)

20097044

Flexible Fuel System for Small Motorcycles

Atsushi Ito, Koji Yamada, Toshiyuki Kubota, Hideya Horie, Yoichi Takahashi, Shiro Kokubu, (Honda R&D Co., Ltd.)

20097055

Development of a Small Low-cost Fuel Injector to Overcome Diversification of Requirements in Global Markets

Daisuke Matsuo, Kazuhiko Sato, Akihiko Haramai, Minoru Ueda, (Keihin Corporation)

20097056

Development of DBW Throttle Body for V4 Engines

Daisuke Shiraida, Takefumi Maruyama, Minoru Ueda, (Keihin Corporation)

20097074

Variable Density Distribution of CNG Jet Injected at Small Injection Pressure

Emishaw Dandena Iffa, Abdul Rashid Abdul Aziz, (Universiti Teknologi PETRONAS)

20097112

Ethanol Impacts on Fuel Supply Parts of Vehicles in Thailand

Chinda Charoenphonphanich, Kalong Buanak, Panya Kansuwan, (King Mongkut's Institute of Technology Ladkrabang)

20097149

Low Cost EFI for 2 and 3 Wheeled Motorcycles

Jeffrey Allen, B. Smither, P. Ravenhill, R. Hoolahan, G. Farmer, (Scion-Sprays Ltd.)

HCCI



Organizers:

Minoru Iida, (Yamaha Motor Co Ltd); Jaal Ghandhi, (University of Wisconsin Madison)

20097021

Effect of Spark Assistance on Improving Cyclic Stability of Auto-Ignition in a Small Two-Stroke Engine
Janitha Sumadhawa Wijesinghe, Guang Hong, (University of Technology, Sydney)

20097035

A Dual Fuel System to Achieve High Equivalence Ratio and High Engine Performance in HCCI Mode Bancha Thanapiyawanit, Lu Jau-Huai, (ChungHsing University)

20097070

A Study of HCCI Combustion Using Spectroscopic Techniques and Chemical Kinetic Simulations
Akira Iijima, Koji Yoshida, Hideo Shoji, (Nihon University)

20097072

Spark Ignition and Spark-Assisted, Controlled Auto-Ignition in an Optical Gasoline Enegine
Steven M Begg, (University of Brighton, UK); Morgan Heikal, (University of Brighton, UK)

20097079

Improvement of Natural-gas HCCI Combustion by Internal EGR by Means of Exhaust Valve Re-Opening

Kiyoshi Kawasaki, Koji Yamane, (The University of Shiga Prefecture); Hiroyuki Ohtsubo, Toru Nakazono, (Yanmar); Kazuki HIROTA, Shingo NAGATA(The University of Shiga Prefecture)

20097085

An Investigation of the Potential of Thermal and Mixing Stratifications for Reducing Pressure Rise Rate on HCCI Combustion by Using Rapid Compression Machine

Daisuke Shirota, (Keio University Graduated School); Norimasa lida, (Keio University)

20097086

Analysis of the Combustion Dispersion Mechanism in HCCI Engine

Chao Shi, Kenichiro Nagai, (Keio University Graduated School); Norimasa Ilda, (KEIO University)

20097087

Mechanism Analysis of Influence of Engine Speed on HCCI Combustion by Using Numerical Calculation

Hiroki Iino, Kenji Shigetoyo, Mari Nagae, (Keio University Graduated School); Norimasa Ilda, (KEIO University)

20097141

The Research about Thermal Stratification with Booster pressure Effect on Pressure Rise Rate in HCCI Engine using multi-zone model

Ock Taeck LIM, O Seok Kwon, DongWon Jeong, (University of Ulsan); Norimasa Iida, (KEIO University)

20097179

Optimization of HCCI Engine Emission Parameters Using Multiobjective Optimization Technique

B.Pandian, G.Nagarajan, D.Ganesh, (Anna University)



Hybrids, Electric Drives & Fuel Cells

Organizers:

Yasuyuki Muramatsu, (Yamaha Motor Co., Ltd.); Jay Meldrum, (Michigan Technological University)

20097031

Development and Operation of a 1kW Direct Methanol Fuel Cell Stack

Kazuyoshi Furukawa, Yasuyuki Muramatsu, Shuhei Adachi, (Yamaha Motor Co., Ltd.)

20097061

Well-To-Wheel Energy Analysis of Conventional and Electric Motorcycles in Malaysia

Ahmad Syazli Mohd Khalil, Horizon Gitano-Briggs, (Universiti Sains Malaysia)

Lubricants

Organizers:

Hideo Kaido, (Kawasaki Heavy Industries), Ltd.; Michael S Brenner, (Lubrizol Corp.)

20097075

Development of Catalyst-Friendly FC-W[®] Certified Marine Oils Utilizing Novel ZDP Technology Brent Richard Dohner, Mike Brenner, Ewa Bardasz, (The Lubrizol Corporation)

20097080

Performance of Motorcycle Engine Oil with Sulfur-Based Additive as Substitute ZN-DTP (Part II)

Nobuaki Watanabe, Akira Mitarai, (Idemitsu Kosan Co.,Ltd.)

20097178

Test Method for Evaluating Gear Fatigue Life of 4-Stroke Motorcycle Engine Oils

Hitoshi Hamaguchi and Hideo Tanaka, (Evonik Degussa Japan Co., Ltd.);

Thorsten Bartels, (Evonik RohMax Additives GmbH)





Takashi Mitome, (Suzuki Motor Corporation); James Carroll, (Southwest Research Institute)

20097010

Weight Saving in Small Engine and Vehicle Components by Utilization of Die Cast Mg Alloy Hiroyuki Omura, Tatsuki Yonemaru, Jo Asada, (Ryobi Limited); Hideharu Nakashima, (Kyushu University)

20097065

Research on Pb-free Electroless Ni Plating for Pistons of General-purpose Engines
Kenji Suto, Tomonori Saito, (Honda R&D Co.,Ltd.); Sumitaka Watanabe, (Japan Kanigen Co.,Ltd.)

20097076

Development of Nitrocarburized High Strength Crankshaft Controlling Vanadium Carbonitride Precipitation by Normalizing

Satoru Suwa, Daiji Kawaguchi, Atsushi Murakami, (Honda R&D Co., Ltd.)

20097082

Development of High Fatigue Strength Valve Spring Using Compound Layer Control by Nitriding Keiichi Maekawa, Atsushi Murakami, (Honda R&D Co., Ltd.)

20097173

Establishment of Judder Analysis Technique & New Friction Material Kazuyoshi Miyachi, (FCC(Thailand)Co.,Ltd.)

NVH Technology

Organizers:

Tadao Okazaki, (Kubota Corporation); Kenneth Kicinski, (Harley-Davidson Motor Co.)

20097015

On Experimental Techniques to Determine Acoustic Performance of Small Exhaust Silencers
Jüri Lavrentjev, Hans Rämmal, (Tallinn University of Technology)

20097128

Damping Loss Factor Prediction in Statistical Energy Analysis for Co-Generation System Enclosure Satoshi Morita, Nobutaka Tsujiuchi, Takayuki Koizumi, Satoshi Morita, (Doshisha University); Hiroshi Uehara, (Yanmar Co.,Ltd.)

20097131

Evaluation of Feeling of Pulse for Cruiser-Type Motorcycle

Takahisa Onishi, Takayuki Koizumi, Nobutaka Tsujiuchi, Takahisa Onishi, (Doshisha University)





Tomoo Shiozaki, (Honda R&D Co., Ltd.); Robert G Kenny, (Queens University of Belfast)

20097013

Knocking Investigations in a small Two-Stroke SI Engine

Kai Schreer, Kai W. Beck, Sören Bernhardt, Ulrich Spicher, (Universitaet Karlsruhe (TH)); Werner Geyer, Stephan Meyer, (Andreas STIHL AG & Co. KG)

20097030

Spectroscopic Measurements in Small Two-Stroke SI Engines

Kai W. Beck, Thomas Heidenreich, Steve Busch, Ulrich Spicher, (Universität Karlsruhe (TH)); Tim Gegg, Armin Kölmel, (Andreas STIHL AG & Co. KG)

20097032

Development of the Gaseous Fuel Direct Injection System for Small Two-Stroke Transports

Teoh Yew Heng, Horizon Gitano-Briggs, Tan Yee Hern, (University Science Malaysia)

20097046

Simulation of Scavenging Process, Internal Mixture Preparation, and Combustion of a Gasoline Direct Injection Two-Cylinder Two-Stroke Engine

Dalibor Jajcevic, Raimund A. Almbauer, Stephan P. Schmidt, (Graz University of Technology); Karl Glinsner, (BRP Rotax, Austria)

20097077

Application of Scavenging-Port Injection of CNG to a Boat Engine at Running Conditions

Ryosuke Shiina, Hideaki Suzuki, Mikiya Araki, Hisao Nakamura, Seiichi Shiga, (Gunma University); Hideo Kishimoto, (Yamato Motor, Co., Ltd.)

20097127

Compression Wave Technology Effects on the Performance of a Two-Stroke Engine

Abdul Yamin Saad, Wei Chin Yeoh, (Universiti Sains Malaysia)





Yoshiro Tokunaga, Toshimi Kobayashi, (Kawasaki Heavy Industries, Ltd.)

20097099

Design and Development of a Three-Wheeler Engine for Improved Fuel Economy and Low Emission Ajith V Pai, Ramachandra Babu Y, V Lakshminarasimhan, (TVS Motor Company)

20097109

The Development of Touring Motorcycle with 1352 ml Engine

Hideto Yoshitake, Yuji Horiuchi, Kazunori Miyoshi, Satoru Watabe, Masanori Kinuhata, Hisatoyo Arima, Youichi Utsumi, (Kawasaki Heavy Industries, Ltd.)

20097143

Developmet of Structure Analysis Method for Motorcycle Frame

Toshiaki Ogushi, Ryota Ide, Yoshihiko Sunayama, (Suzuki Motor Corporation)

Vehicle Dynamics & Safety

Organizers:

Takayuki Koizumi, (Doshisha University); Deane B Jaeger, (Harley-Davidson Motor Co.)

20097060

Cooperative Steer Control on Motorcycle between Rider and Active Support Torque Yoshiki Noritou, Takayuki Koizumi, Nobutaka Tsujiuchi, Yuya Ezaki, (Doshisha University)

20097081

Rider Response Time in Motorcycle Riding

Sai Praveen Velagapudi, Raju K. Venkatamanga, R. Babu, (TVS Motor Company Ltd.)

20097146

Development of an Electronically-Controlled Combined Brake System

Hiroaki Amano, Keiji Sakamoto, Tomoyuki Takahashi, Manabu Kokawa, (Kawasaki Heavy Industries, Ltd.)

20097152

Simulation and Experimental Study to Improve Wobbling Stability of a 3-Wheeler

Gangi Reddy Dumpala, G. S. G. Ravikanth, Tushar R. Gowade, V. Jeyamuragan, M. Nagarjun Reddy, (TVS Motor Company)



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