

SETC2012 Awards

Best Paper

Paper No. SAE / JSAE	Paper Title	Authors	Session
2012-32-0116 /20129116	Development of a Compact Intake Porting Design for a 2-Stroke DI Outboard Engine	Paul Westhoff and Justin Johnson, BRP US Inc.	Two-Stroke Engines

High Quality Papers

Paper No. SAE / JSAE	Paper Title	Authors	Session
2012-32-0002 /20129002	Visualization of Propane and Natural Gas Spark Ignition and Turbulent Jet Ignition Combustion	Elisa Toulson, Andrew Huisjen, Xuefei Chen, Cody Squibb, Guoming Zhu and Harold Schock, Michigan State University, William P. Attard, MAHLE Powertrain LLC	Advanced Combustion
2012-32-0017 /20129017	Combustion and Emissions with Bio-alcohol and Nonesterified Vegetable Oil Blend Fuels in a Small Diesel Engine	Hideyuki Ogawa, Hari Setiaprada, Gen Shibata, Hokkaido Univ. Kosuke Hara, Yanmar Co. Ltd.	Alternative Fuels
2012-32-0018 /20129018	Fuel Spray Evaporation and Mixture Formation Processes of Ethanol/Gasoline Blend Injected by Hole-Type Nozzle for DISI Engine	Masaharu Chato, University of Hiroshima, Suguru Fukuda, Honda Motor Co., Kiyotaka Sato and Tatsuya Fujikawa, Mazda Motor Co., Run Chen, Zezheng Li, Jiangping Tian and Keiya Nishida, University of Hiroshima	Alternative Fuels
2012-32-0031 /20129031	Simultaneous Reduction of Pressure Rise Rate and Emissions in a Compression Ignition Engine by Use of Dual-Component Fuel Spray	Yoshimitsu Kobashi, Hiroki Maekawa and Satoshi Kato, Kanazawa Institute of Technology, Jiro Senda, Doshisha University	Diesel Engines
2012-32-0079 /20129079	A Study of the Mechanism Producing Autoignition in an HCCI Engine using In-cylinder Spectroscopy and Chemical Kinetic Simulation	Akira Iijima, Nihon University, Tomoya Tojo, Akira Terashima and Kenta Suyama, Nihon University Graduate School, Koji Yoshida and Hideo Shoji, Nihon University	HCCI
2012-32-0080 /20129080	A Spectroscopic Study of the Effects of Multicomponent Fuel Blends on Supercharged HCCI Combustion	Mitsuo Asanuma, Nihon University Graduate School, Akira Iijima, Koji Yoshida and Hideo Shoji, Nihon University, Go Emori, Nihon University Graduate School	HCCI
2012-32-0088 /20129088	Development of lightweight valve lifter made from DLC coated beta titanium alloy for motorcycles	Kosuke Doi and Hirotaka Kurita, Yamaha Motor Co., Ltd	Materials
2012-32-0110 /20129110	Spark Ignition System for Direct-Injected Gasoline Two Stroke Engine	Michael J. French, BRP US Inc.	Two-Stroke Engines
2012-32-0111 /20129111	Future Engine Technology in Hand-Held Power Tools	Alexander Trattner, Stephan Schmidt, Roland Kirchberger and Helmut Eichlseder, Graz University of Technology, Armin Kölmel, Michael Raffenberg and Tim Gegg, Andreas STIHL AG & Co. KG	Two-Stroke Engines

High Quality Presentations

Paper No. SAE / JSAE	Paper Title	Authors	Session
2012-32-0052 /20129052	(Best) Knock Control on Small Four-Two-Wheeler Engines	Timo Jahn , Frank Schuerg and Stefan Kempf, Robert Bosch GmbH	Engine Controls
2012-32-0044 /20129044	Model Based Engine Speed Evaluation for Single-Cylinder Engine Control	Silke Seuling, Haris Hamedovic, Wolfgang Fischer and Frank Schuerg, Robert Bosch GmbH	Engine Controls
2012-32-0059 /20129059	Expansion to Higher Efficiency - Investigations of the Atkinson Cycle in Small Combustion Engines	Patrick Pertl, Alexander Trattner, Andrea Abis , Stephan Schmidt and Roland Kirchberger, Graz University of Technology, Takaaki Sato, DENSO Automotive Deutschland GmbH	Engine Technology
2012-32-0069 /20129069	Layout of a Charged Power Sport Engine	Christian Zinner, Reinhard Stelzl and Stephan Schmidt, Graz University of Technology, Stefan Leiber and Thomas Schabetsberger, BRP-Powertrain GmbH & Co KG	Engine Technology
2012-32-0111 /20129111	Future Engine Technology in Hand-Held Power Tools	Alexander Trattner, Stephan Schmidt, Roland Kirchberger and Helmut Eichlseder, Graz University of Technology, Armin Kölmel, Michael Raffenberg and Tim Gegg, Andreas STIHL AG & Co. KG	Two-Stroke Engines