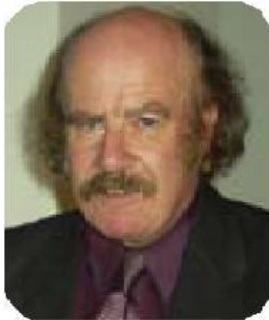


Small Engine Technology Conference Keynote Speakers



Professor Harry Watson
University of Melbourne

Prof. Harry Watson's vision and research leadership at the University of Melbourne have made outstanding contributions to engine development for which he was awarded 2010 FISITA Gold Medal. His contributions have been based on the chemistry and physics of internal combustion engine processes. Practical experience in building petrol and gas turbine engines led to a PhD on reaction kinetics for hydrogen combustion in engines and thus understanding, for the first time, of the role of chemistry in the HCCI engine process and jet assisted ignition (GAI). This founded lifelong development of computer models for engine efficiency and emissions and building world leading natural gas and hydrogen engines. A long the way he has designed many small engines both two stroke and four stroke, ultra high speed (Formula One research) and high speed optical access engines. In the middle 80's his work with GM and Garrett demonstrated up to 40% fuel economy improvement from down-sizing with turbocharging that included testing the first ceramic turbines. In a Ford alternative fuel project the first application of Bosch's natural gas injectors led to production engines with 45% CO₂ reduction from gasoline baseline, using CR 16 optimised combustion chambers and ultra lean burn. Based on these and other experiences the keynote will examine the challenges of small engine development, including heat transfer, the interaction of valve events and boosting, lean burn, low speed efficiency, knock and high specific output, touching on control and mechanical design issues.

Professor Watson is a member of the FISITA Council, President of SAE-Australasia 2002-2006 and Head of Mechanical Engineering at UniMelb 1996-2000 and a Fellow of the Australian Academy for Science and Engineering.



Tetsuo Suzuki
Senior Managing Officer and Director,
Chief Operating Officer, Motorcycle R&D Center,
Honda R&D Co., Ltd.
President, Honda Racing Corporation

Professional Experience

- 1983 Joined Honda Motor Co., Ltd.
Transfer to Asaka R&D Center, Honda R&D Co., Ltd.
- 2001 Manager, Motor Sports Development, Asaka R&D Center, Honda R&D Co., Ltd.
- 2006 Operating Officer, Motorcycle R&D Center, Honda R&D Co., Ltd.
- 2008 Managing Officer, Motorcycle R&D Center, Honda R&D Co., Ltd.
- 2009 Managing Officer, Chief Operating Officer, Motorcycle R&D Center,
Honda R&D Co., Ltd.
President, Honda Racing Corporation
- 2011 Managing Officer and Director, Chief Operating Officer, Motorcycle
R&D Center, Honda R&D Co., Ltd.
President, Honda Racing Corporation
- 2012 Current position