



**SETC
2013**

19th Small Engine Technology Conference

October 8-10, 2013

Taipei, Taiwan



PRELIMINARY PROGRAM

UPDATED

SAE *International*

SAE *International* **Taipei
Section**

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PROGRAM AT-A-GLANCE

Time\Date	October 7, 2013 Monday	October 8, 2013 Tuesday	October 9, 2013 Wednesday	October 10, 2013 Thursday
08:00-09:00	Technical Visits 08:00-16:30			
09:00-10:00		Opening Ceremony & Keynote Speech 09:00-10:30 (Room 201BCDE, 2F)	Technical Sessions 08:30-10:00 (Room 201A, 201B, 201C, 201D, 201E, 2F)	Technical Sessions 08:30-10:00 (Room 201A, 201B, 201C, 201D, 201E, 2F)
10:00-11:00		Coffee Break 10:30-11:00	Coffee Break, Brief Presentation of Poster Session 10:00-10:30	Coffee Break, Brief Presentation of Poster Session 10:00-10:30
11:00-12:00		Technical Sessions 11:00-12:00 (Room 102, 103, 1F; 201A, 201F, 2F)	Technical Sessions 10:30-12:00 (Room 201A, 201B, 201C, 201D, 201E, 2F)	Technical Sessions 10:30-12:00 (Room 201A, 201B, 201C, 201D, 201E, 2F)
12:00-13:00		Lunch 12:00-13:30 (Banquet Hall, 3F)	Lunch 12:00-13:30 (Banquet Hall, 3F)	Lunch, Award & Closing Ceremony 12:00-14:00 (Banquet Hall, 3F)
13:00-14:00		Technical Sessions 13:30-15:30 (Room 201A, 201B, 201C, 201D, 201E, 2F)	Technical Sessions 13:30-15:30 (Room 201A, 201B, 201C, 201D, 201E, 2F)	
14:00-15:00				
15:00-16:00		Coffee Break, Brief Presentation of Poster Session 15:30-16:00	Coffee Break 15:30-15:45	
16:00-17:00		Technical Sessions 16:00-18:00 (Room 201A, 201B, 201C, 201D, 201E, 2F)	Plenary Session 15:45-18:05 (Room 102, 1F)	
17:00-18:00				
18:00-19:00		Welcome Reception 18:30-20:30 (33F, TWTC)	Banquet 18:30-21:00 (Banquet Hall, 3F)	
19:00-20:00				
20:00-21:00				

INTRODUCTION OF SETC2013

Theme: Challenges for Energy Conservation

Since the first event in 1989, the Small Engine Technology Conference (SETC) continues to be the international technology conference for small engines and related products. SETC is jointly sponsored each year by the Society of Automotive Engineers of Japan, Inc. (JSAE) and SAE International.

JSAE is pleased to organize the 19th SETC that will be held from October 8 to October 10, 2013 at Taipei International Convention Center in Taipei, Taiwan. The event is co-organized by SAE International Taipei Section and also supported by Japan Land Engine Manufacturers Association (LEMA), Japan Marine Industry Association (JMIA) and Taiwan Automotive Research Consortium (TARC).

SETC2013 is themed, "Challenges for Energy Conservation". Due to growing expansion of world economy, we see rapid increase in demand for energy while that for small power source rising because of useful and affordable machines. Energy conservation is a key issue to foresee future potential of small power sources.

Technical visits and plenary session are planned for enlarging experience to the conference attendees besides exhibition and poster session. Technical exhibition will link technical activities with support to presentation of work in progression various fields, while poster session designed to promote technological information exchange between academia and business industry.

SETC HISTORY

Conference	City	Country
SETC1989	Milwaukee	USA
SETC1991	Yokohama & Hamamatsu	Japan
SETC1993	Pisa	Italy
SETC1995	Milwaukee	USA
SETC1997	Yokohama	Japan
SETC1999	Madison	USA
SETC2001	Pisa	Italy
SETC2002	Kyoto	Japan
SETC2003	Madison	USA
SETC2004	Graz	Austria
SETC2005	Bangkok	Thailand
SETC2006	San Antonio	USA
SETC2007	Niigata	Japan
SETC2008	Milwaukee	USA
SETC2009	Penang	Malaysia
SETC2010	Linz	Austria
SETC2011	Sapporo	Japan
SETC2012	Madison	USA
SETC2013	Taipei	Taiwan



This event is organized under FISITA patronage

FISITA is the international federation linking the national automotive engineering societies in 37 countries. FISITA was founded in 1948 as a neutral forum for the exchange of technical knowledge on every aspect of vehicle design, development and manufacture. FISITA is a non-profit organization committed to helping create efficient, affordable, safe and sustainable automotive transportation.

CONFERENCE INFORMATION

19TH SMALL ENGINE TECHNOLOGY CONFERENCE

Date: October 8 – 10, 2013

Venue: Taipei International Convention Center

Main Theme: Challenges For Energy Conservation

Lead Organized By: Society Of Automotive Engineers Of Japan, Inc.

Joint Organized By : SAE International

Co-organized By: SAE International Taipei Section

Supported by:



Japan Land Engine Manufacturers Association



Japan Marine Industry Association



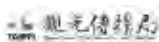
Taiwan Automotive Research Consortium



National Science Council



Bureau of Foreign Trade, Ministry of Economic Affairs



Department of Information and Tourism, Taipei City Government



Ministry of Education



Ministry of Foreign Affairs



Department of Mechanical Engineering, National Taiwan University



Department of Vehicle Engineering, National Taipei University of Technology

COMMITTEE MEMBERS

JSAE

HONORARY COMMITTEE

Chair: Takaaki Kimura (Yamaha Motor Co., Ltd.)

Sadayuki Inobe	(SUZUKI MOTOR CORPORATION)
Yuji Marui	(Honda R&D Co., Ltd.)
Yoshiaki Namboku	(Japan Land Engine Manufacturers Association)
Hideo Shoji	(Nihon University)
Yasushi Tsuritani	(Japan Marine Industry Association)
Kohei Yamada	(Kawasaki Heavy Industries, Ltd.)

ORGANIZING COMMITTEE

Chair: Minoru Iida (Yamaha Motor Co., Ltd.)

Masayuki Baba	(Honda R&D Co., Ltd.)
Shosaku Chiba	(Honda R&D Co., Ltd.)
Shigeru Fujii	(Yamaha Motor Co., Ltd.)
Masaaki Ishibashi	(Honda R&D Co., Ltd.)
Ryosuke Ishikawa	(SUZUKI MOTOR CORPORATION)
Yohei Kurihara	(SUZUKI MOTOR CORPORATION)
Makoto Matsuo	(Kawasaki Heavy Industries, Ltd.)
Yasuo Moriyoshi	(Chiba University)
Yuh Motoyama	(Yamaha Motor Co., Ltd.)
Yasuyuki Muramatsu	(Yamaha Motor Co., Ltd.)
Yutaka Nitta	(SUZUKI MOTOR CORPORATION)
Tadao Okazaki	(LEMA*/Kubota Corporation)
Hideyuki Okumura	(JMIA** / Yamaha Motor Co., Ltd.)
Koji Yoshida	(Nihon University)
Makoto Yoshida	(Yamaha Motor Co., Ltd.)

TECHNICAL COMMITTEE

Chair: Yutaka Nitta (SUZUKI MOTOR CORPORATION)

Minoru Iida	(Yamaha Motor Co., Ltd.)
Hiromi Deguchi	(SUZUKI MOTOR CORPORATION)
Toshimi Kobayashi	(Kawasaki Heavy Industries, Ltd.)
Hiroataka Kurita	(Yamaha Motor Co., Ltd.)
Takeshi Maeda	(Honda Motor Co., Ltd.)
Takashi Mitome	(SUZUKI MOTOR CORPORATION)
Yasuo Moriyoshi	(Chiba University)
Yasuyuki Muramatsu	(Yamaha Motor Co., Ltd.)
Shusuke Okada	(LEMA*/YANMAR Co., Ltd.)
Tadao Okazaki	(LEMA*/Kubota Corporation)
Hideyuki Okumura	(JMIA**/Yamaha Motor Co., Ltd.)

Hiroshi Omote (LEMA*/YANMAR Co., Ltd.)
Tomoo Shiozaki (Honda R&D Co., Ltd.)
Koji Yoshida (Nihon University)

**LEMA: Japan Land Engine Manufacturers Association*

***JMIA: Japan Marine Industry Association*

SAE INTERNATIONAL TECHNICAL COMMITTEE

Chair: Robert Kee (Queen's University Belfast)

William Attard	(MAHLE Powertrain)
Kai W. Beck	(MOT GmbH)
Glenn Bower	(University of Wisconsin-Madison)
Brian Callahan	(Achates Power)
Renzo Capitani	(University of Florence)
LUCA Carmignani	(PIAGGIO & C.S.pA.)
James Carroll	(Southwest Research Institute)
Paolo Citti	(Università Guglielmo Marconi)
Derek Cleasby	(Bosch Engineering GmbH)
Brent Dohner	(Lubrizol UK)
Roy Douglas	(Queen's University Belfast)
Ken Fosaaen	(Kerdea Technologies Inc.)
Roberto Gentili	(University of Pisa)
Jaal Ghandhi	(University of Wisconsin-Madison)
Peter Kaub	(Re-Sol, LLC)
Ken Kicinski	(Harley-Davidson Motor Company)
Paul Litke	(AFRL)
Joe Lominaco	(Harley-Davidson Motor Company)
Nagesh Mavinahally	(Meggitt Control Systems)
Geoff McCullough	(Queen's University Belfast)
Jay Meldrum	(Michigan Technological University)
Scott Miers	(Michigan Technological University)
Dan Nehmer	(John Deere Company)
David Palmer	(BRP)
Marco Pierini	(ATA- Associazione Tecnica dell' Automobile & University of Florence)
Giuseppe Pozzana	(Polo of Innovation for Mechanics & Vehicle of the Tuscany Region)
Thorsten Raatz	(Robert Bosch LLC)
Enrico Rebaudo	(Continental Automotive Italy SpA)
Paul Richards	
Stephan Schmidt	(Graz University of Technology)
Sebastian Strauss	(STIHL Inc.)
David Thornhill	(Queen's University Belfast)
Tony Szczotka	(Robert Bosch Corp.)

SAE INTERNATIONAL TAIPEI SECTION

ORGANIZING COMMITTEE

Chair: Han-Ying Wang (Industrial Technology Research Institute of Taiwan, R.O.C.)

Shyue-Bin Chang	(Kao Yuan University)
Ching-Ya Chen	(China Motor Corporation)
Hung-Wei Chen	(China Motor Corporation)
Bo-Liang Chen	(Industrial Technology Research Institute of Taiwan, R.O.C.)
Chia-Jui Chiang	(National Taiwan University of Science and Technology)
Rong-Fang Horng	(Kun Shan University)
Shih-Fang Hsieh	(Automotive Research & Testing Center)
Wen-Hsien Hsu	(Automotive Research & Testing Center)
Chih-Shan Hsu	(China Motor Corporation)
Sih-Wei Huang	(National Taipei University of Technology)
Wen-Fang Hwang	(Taiwan Transportation Vehicle Manufacturers Association)
Hsin-Ya Lee	(China Motor Corporation)
Ching-Chiu Liao	(Automotive Research & Testing Center)
Han-Ching Lin	(China Motor Corporation)
Hai-Ping Lin	(Da-Yeh University)
Tyng Liu	(National Taiwan University)
Jiunn-Yje Lu	(Ford Lio Ho Motor Co., Ltd.)
Jau-Huai Lu	(National Chung Hsing University)
Yuh-Yih Wu	(National Taipei University of Technology)
Chin-Chang Wu	(Taiwan Transportation Vehicle Manufacturers Association)

TECHNICAL COMMITTEE

Chair: Yuh-Yih Wu (National Taipei University of Technology)

Shyue-Bin Chang	(Kao Yuan University)
Hai-Ping Lin	(Da-Yeh University)
Jau-Huai Lu	(National Chung Hsing University)
Chia-Jui Chiang	(National Taiwan University of Science and Technology)
Rong-Fang Horng	(Kun Shan University)

OPENING CEREMONY

09:00-09:30, TUESDAY, OCTOBER 8, 2013
ROOM 201BCDE, 2F

WELCOME REMARKS - JSAE



MR. TAKAO KUBOZUKA

Japan

Executive Director

Society of Automotive Engineers of Japan, Inc. (JSAE)

Vice President – Asia, FISITA

Graduated from University of Tokyo, Japan March 1976, Mr. Takao Kubozuka earned a bachelor degree in the field of Aeronautics and Astronautics, Engineering Department.

His professional career began with Nissan Motor Co., Ltd. at Nissan Research Center from April in the same year.

Mr. Kubozuka held a number of roles within Nissan as Manager, Engineering Department from 1993-1995; Manager, Vehicle Research Laboratory from 1995-1999; Deputy General Manager, Technological Planning Department from 1999-2001 and as General Manager, Vehicle Research Laboratory from 2001-2008.

In May 2008 Mr. Kubozuka joined the Society of Automotive Engineers of Japan, Inc. as Executive Director and held the position of FISITA Deputy Vice President Asia at the same time. Mr. Kubozuka worked closely with FISITA and is currently serving as the Vice President – Asia, FISITA.

WELCOME REMARKS – SAE INTERNATIONAL



DR. NAGESH S. MAVINAHALLY

USA

General Committee Chair, SETC2013, SAE International

Principal Engineer, Meggitt Control Systems

Dr. Nagesh Mavinahally obtained his PhD in I.C. Engines from Indian Institute of Technology, Madras, in 1992, MS from National Institute of Technology, Srinivasnagar, and BS from National Institute of Engineering, Mysore. He completed the post-doctoral fellowship at the University of New Orleans in 1994. He has extensive experience in the design, development, and manufacturing of small engines and fuel injection system. He has led projects to develop engines ranging from 30cc two and four-stroke engines for hand held applications to large displacement natural gas miller cycle engines for power generation.

Dr. Mavinahally has published technical papers in SAE and ASME Journals. He has many issued and pending patents. Over the years Dr. Mavinahally has developed alternative engine architectures including a cam shaft-less mono-shaft four-stroke engine, pump-less lubrication system, all attitude four-stroke engines, and mono-shaft extended expansion engine (Atkinson engine).

Dr. Mavinahally has held positions as Director of Advanced Product Development at Cummins, Director of Advanced Engine Technologies at Homelite, Founder/President of MavinTech, LLC., and is a Principal Engineer at MEGGITT.

Nagesh has been involved in SETC since 1993.

WELCOME REMARKS – SAE INTERNATIONAL TAIPEI



MR. CHING YA CHEN

Taiwan

President, SAE Taipei Section

Vice President China Motor Corporation

Professional Experience:

- 1988 Engineer, Chassis Section, Yulon Engineering Center, Yulon Motor Co., Ltd.
- 1992 Section Chief, Chassis Section, Yulon Engineering Center, Yulon Motor Co., Ltd.
- 1994 Section Chief, Electrical & Electronics Section, Yulon Engineering Center, Yulon Motor Co., Ltd.
- 1995 Assistant General Manager, Procurement Division, China Motor Corporation
- 1996 Project General Manager, Oversea Business Division, China Motor Corporation
- 1999 Project General Manager, Sales Division, China Motor Corporation
- 2000 General Manager, Oversea Business Division, China Motor Corporation
- 2002 General Manager, Parts Development Division, China Motor Corporation
- 2006 Vice President, Technology Development Group, China Motor Corporation

WELCOME REMARKS – TAIPEI CITY GOVERNMENT



DR. LUNG-BIN HAU

Taiwan

Mayor, Taipei City Government

Education:

- Ph.D. in Food Science and Technology, 1983, University of Massachusetts, Amherst, MA, U.S.A.
- B.S. in Agricultural Chemistry, 1975, National Taiwan University, Taipei, Taiwan, R.O.C.

Professional Experience:

- 2004.04-2006.01: Secretary General, The Red Cross Society of The Republic of China .
- 2001.03-2003.10: Minister, Environmental Protection Administration, R.O.C.
- 1996.02-2001.03: Legislator, Legislative Yuan, R.O.C.
- 1998.02-1998.05: Caucus Convener, New Party.
- 1997.09-1998.02: Deputy Caucus Convener, New Party.
- 1997.02-1997.05: Chair, Technical Association, Legislative Yuan, R.O.C.
- 1996.09-1997.02: Co-Chair, Education Committee, Legislative Yuan, R.O.C.
- 1988-1996: Professor, Graduate Institute of Food Science and Technology, National Taiwan University, Taipei, Taiwan, R.O.C.
- 1983-1988: Associate Professor, Graduate Institute of Food Science and Technology, National Taiwan University, Taipei, Taiwan, R.O.C.

Honors:

- Award for Excellence in Teaching, National Taiwan University, R.O.C.
- Award for Excellence in Research, National Science Council, Executive Yuan, R.O.C.
- Award for Excellence in Research, Commission of Atomic Energy, Executive Yuan, R.O.C.
- Chiang-Hsu Lian-Jen Merit Award for Research in Food Science and Technology, Society of Food Science and Technology, R.O.C.

KEYNOTE SPEECH

09:30-10:30, TUESDAY, OCTOBER 8, 2013
ROOM 201BCDE, 2F

SPEAKERS

SUBJECT: LIGHT, SLIM, COMPACT - KEYWORD TO REVS YOUR HEART



MR. KUNIHICO MIWA

Japan

Senior Executive Officer of the Second Business Unit
Motorcycle Business Operations, Yamaha Motor Co., Ltd.

Kunihiro MIWA started his professional career in 1978 at Yamaha Motor Co., Ltd. as a development engineer of motorcycle. After the experience of development of road race motorcycle, he became a project leader of motorcycle production model in the category of supersport in 1993. In 2002, he joined the management of Yamaha Motor Co., Ltd. as the manager of the product management division of the Motorcycle Business Operations. In 2009, he became an executive officer as the senior general manager of the commuter vehicle unit of the Motorcycle Business Operations. He is now the senior executive officer of the 2nd Business unit of the Motorcycle Business Operations. He also has experience to stay in Taiwan as the president of Yamaha Motor R&D Taiwan Co., Ltd between 2006 and 2008.

During his career, his contribution to motorcycle development is very deep and broad: from small commuter to high performance supersport: from production to racing motorcycle.

SUBJECT: SIMPLE IDEAS MAKE BETTER SMALL ENGINES



PROF. ROBERTO GENTILI

Italy

Professor, Università di Pisa

Roberto Gentili graduated in Mechanical Engineering from the University of Pisa in 1974. In 1976 and 1977 he spent his first two years of research activity at the University of Florence. In 1978 he joined the University of Pisa, where he holds the position of Full Professor, chairs the Council for the Master's Degree Course in Vehicle Engineering and is teaching Fluid Machines and Internal Combustion Engines.

In very large prevalence the scientific activity of Roberto Gentili regards engines for land vehicles (cars and motorcycles) and is aimed at developing solutions that are often original and involve a multidisciplinary approach, thanks to the contribution of specialists of other fields. A number of studies takes advantage of the cooperation with prestigious Italian and foreign research institutes and universities.

More than one hundred papers, published on proceedings of conferences and scientific reviews, as well as several patents, prove this activity, that in addition finds acknowledgment in the roles of chairman or organiser that Gentili had in several national and international conferences, besides various invitations to meetings and conventions on I.C. engines and motor vehicles.

Several times Gentili has coordinated research groups for research supported by CNR (Italian National Research Council), by Pisa University, by Italian Ministries and by agreements with industrial companies. He was member of several commissions for university contests. In the three-year period 1984-'86 he served on CUN (National University Council) 09 Advisory Committee for the assignment of M.P.I. (Public Instruction Ministry) 40% funds for scientific research. Since 1994 he has been SAE member. He is currently Vice President of ATA (Technical Association of Automobile) Tuscany, which he chaired from 2009 to 2012 and on the guiding board of which he has been serving for over twenty years.

SUBJECT: OVERVIEW OF TAIWAN CLEANER PROPULSION SYSTEM TECHNOLOGY DEVELOPMENT



DR. JET P.H. SHU

Taiwan

Advisor, Science & Technology, DoIT, Ministry of Economic Affairs (MOEA)

Date of Birth: July 10, 1954

Education: Ph. D. Degree, Aerospace Engineering, Auburn University, USA

Work Experience:

- 1976~1985: Assistant & Associate Researcher of Rocket Science & Propulsion System Technology Projects, CSIST & NASA.
- 1985~1991: Engineer & Manager of Automotive Product Engineering, Ford Motor Company, US & Taiwan.
- 1991~2006: Deputy General Director of Powertrain Engineering, Auto-Electronics, and Electric Scooter Technology, ITRI.
- 2006~2008: VP & CEO of Auto-Electronics System Development, Manufacturing, Sales, and Marketing, Liteon Automotive & EPS Co..
- 2008~Now: Visiting Industry Professor, Mechanical Engineering of Taiwan University & Automotive Engineering of Taipei Tech.
- 2009~Now: Advisor, Science & Technology, DoIT, MOEA

PLENARY SESSION

Theme: Motorcycles in Asian Region

15:00 - 17:30, WEDNESDAY, OCTOBER 9, 2013

ROOM 102, 1F

MODERATOR



PROF. NORIMASA IIDA

Japan

Department of System Design Engineering
Faculty of Science and Technology, Keio University Japan

Norimasa Iida is a Professor in the Faculty of Science and Technology at Keio University, Japan. He obtained his PhD in 1983 from Keio University on the topics of propagation and extinction mechanisms of premixed flames flowing into a narrow channel from a combustible-gas-charged chamber, from where he started his career.

Norimasa Iida spent a very productive year as a Visiting Assistant Professor working at the Engine Research Center, University of Wisconsin-Madison, USA.

He headed a project "Low Heat Rejection Ceramics Two-stroke Methanol Engine" at Kanagawa Academy of Science and Technology in Japan.

Norimasa Iida has contributed his research work in the combustion and emission of internal combustion engines with his special interests in life cycle assessment for next generation vehicles. He, as a leader in HCCI combustion research, has published more than 100 papers on the subject, most of which are presented at SAE International, JSAE and JSME.

Norimasa Iida is currently serving as Vice Chair of JSAE Technology Board.

- 1973 Graduated from Department of Mechanical Engineering, Faculty of Engineering, Keio University, Japan
- 1980 Earned Doctor of Engineering at Keio University
- 1983 Became Assistant, Faculty of Science and Technology, Keio University
- 1985 Became Assistant Professor, Faculty of Science and Technology, Keio University
was appointed Visiting Professor in Mechanical Engineering Department, University of Wisconsin, Madison, USA
- 1990 Headed Ceramics Methanol Engine Project, Kanagawa Academy of Science and Technology, Japan
- 1991 Became Associate Professor, Faculty of Science and Technology, Keio University
- 1997 Became Professor, Faculty of Science and Technology, Keio University

SPEAKERS



PROF. ICHIRO KAGEYAMA

Japan

Professor, Dr. of Engineering

- Nihon University, College of Industrial Technology, Department of Mechanical Engineering, Japan
- Director of Nihon University Center for Automotive Research (NU-CAR)
- Academic Affairs in Charge for College of Industrial Technology, Nihon University

Prof. Kageyama was born in 1949 in Tokyo, Japan. He graduated from Nihon University, College of Science and Technology in 1972. Then, he went on to the graduate school, and he took the doctor degree in 1977 from Nihon University. Since 1977, he has engaged in Nihon University, College of Industrial Technology, Department of Mechanical Engineering.

His research fields are vehicle dynamics and control, human interface, motorcycle dynamics and control, articulated vehicle dynamics and control, and so on. From 1989 to 1990, he had been a visiting researcher on the Technical University of Delft, in the Netherlands.

Since 1994, he has been a professor of Nihon University. He had been a visiting researcher on the National road and traffic research institute, in Sweden for 6 months in 2004. He founded the Nihon University Center for Automotive Research (NU-CAR) in 2010, and he has been the director up to now.



MR. CHUN-PING KO

Taiwan

- Executive Vice-President and CFO of Kwang Yang Motor Co., Ltd.
- Director of Kwang Yang Motor Co., Ltd.
- Director of Taiwan Transportation Vehicle Manufacturers Association
- Deputy Managing Director of Motorcycles Manufacturing Committee
- Director of Eternal Chemical Co., Ltd.

Profile

- Comprehensive experience in sales, marketing, financial management and new business development, including strategic planning, business environmental analysis, new business investment, and new business negotiation.
- Proven ability to grow sales through proficient management of sales professionals.
- Skilled in recruiting, hiring and training sales professionals to successfully manage an independent network of dealers with consistent emphasis on increased productivity.
- Proficient in executive and large group financial management.

CFO and Executive Vice President

September 2006 to Present

Executive Rooms, Kymco

Promoted to CFO and Executive Vice President in 2006 with direct responsibilities include all aspects of financial management and support to CEO/ President. Achieve domestic market share from 36.3% to 41.8% during 2006 to 2012. Successfully expanded distribution channel to overseas and build up overseas subsidiaries such as Kymco USA Inc., Kymco Luxembourg S.A., Kymco Philippines Inc., and Kymco Healthcare UK Inc..

Vice president March 2002 to August 2006

Sales and Management Center, Kymco

Promoted to Vice President of Sales and Management Center in 2002 with direct responsibilities include whole company administration management and all aspects of global/domestic sales management and advertisement for 2/4 wheelers business. Achieve domestic market share from 33.8% to 36.3% during 2002 to 2006. Successfully build OEM/ ODM business and relationships to Arctic Cat, BMW, Duetz, and Kawasaki during these periods.

Experience Summary

General Manager

March 1994 to March 2002

Strategy and Planning Division, Kymco

Division leader focused on strategic planning, new business investment and financial management to the company. Successfully build 6-8 J/V businesses in China. Become the Director of Taiwan Transportation Vehicle Manufacturers Association during this period.

Education

Master of Management Sciences

Tamkang University Taipei, Taiwan, R.O.C.



MR. YEIN-RUI HSIEH

Taiwan

Director General

Department of Air Quality Protection and Noise Control,
Environmental Protection Administration Executive Yuan, R.O.C.

Education

1985 B.A. in Agricultural Engineering, National Taiwan University

1987 M.S. in Civil Engineering, National Central University

Career

1989 Engineer, Bureau of Housing and Urban Development,
Taiwan Provincial Government

1990 Specialist, Environmental Protection Administration
Executive Yuan, R.O.C.

1995 Section Chief, Environmental Analysis Laboratory

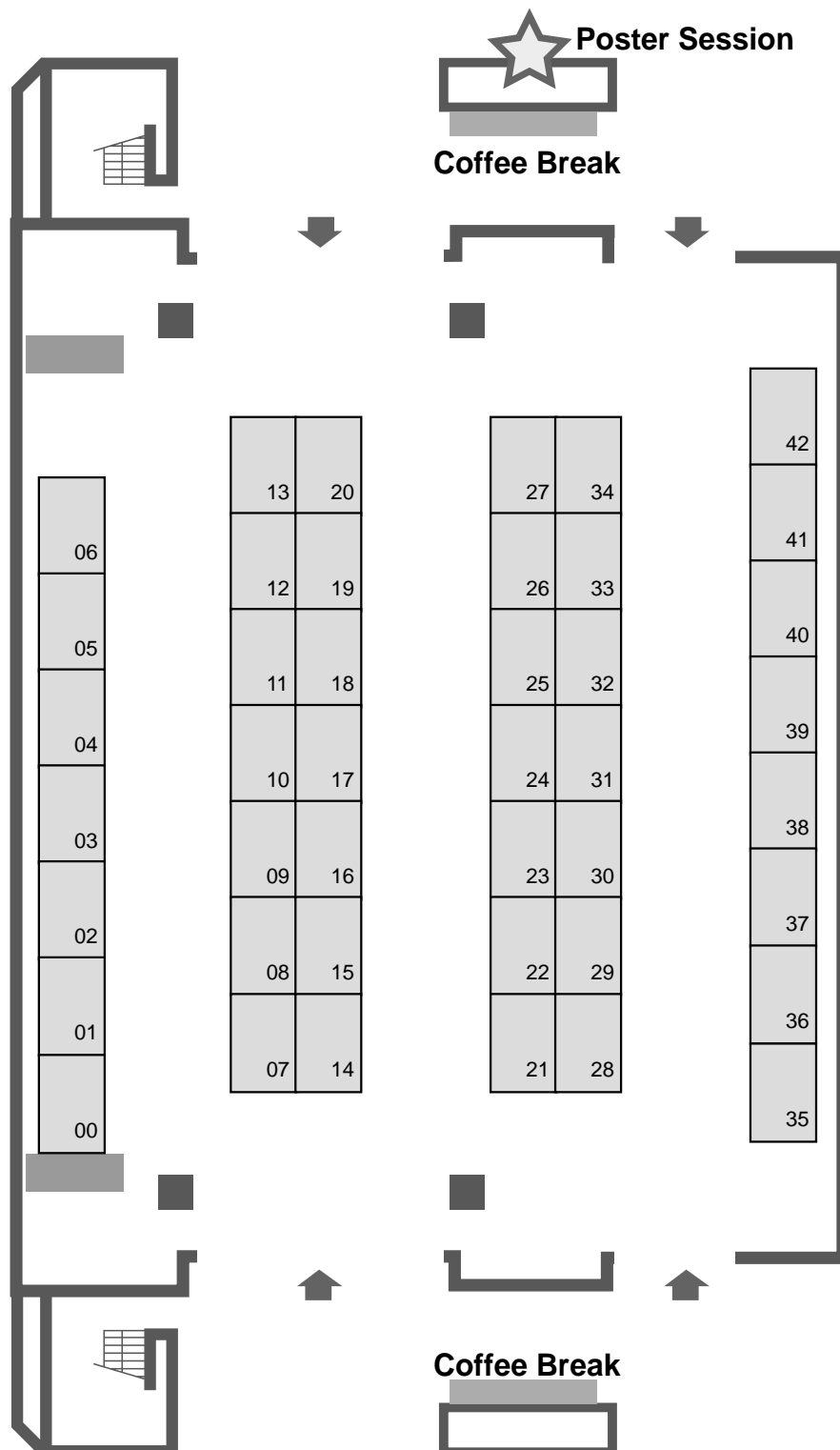
2002 Senior Director, Department of Air Quality Protection and Noise Control, EPA R.O.C.

2007 Deputy Director, Department of Air Quality Protection and Noise Control, EPA R.O.C.

2009 Director General, Department of Air Quality Protection and Noise Control, EPA R.O.C.

EXHIBITION & POSTER SESSION

OCTOBER 8-10 AT ROOM 101



EXHIBITION OPENING HOURS

10:30-17:00, Tuesday, October 8, 2013

10:00-17:00, Wednesday, October 9, 2013

10:00-12:00, Thursday, October 10, 2013

EXHIBITION

0	ISID
1-6	Taiwan Automotive Research Consortium
7	Cambustion Limited
8	Magna International Japan Inc.
9	MathWorks
10	AVL List GmbH
11	dSPACE Japan K.K.
12, 13	A & D Technology
14	SCSK Corporation
15, 16	ETAS Automotive Technology (Shanghai) Co., Ltd.
17	PRÜFREX Innovative Power Products GmbH
18	I. C. M. Inc.
19, 20	Freescale Semiconductor, Inc.
21	Lubrizol
22	HUX
23	Currawong Engineering
24	Standard Motor Corporation
25-27	China Engine Corporation
28	Lubrizol
29	Heraeus Precious Metals GmbH & Co. KG
30, 31	Tai Ling Motor Co., Ltd. (Suzuki Motor)
32-34	Yamaha Motor Taiwan Co., Ltd.
35, 36	China Motor Corporation
37, 38	Honda R&D Co., Ltd.
39, 40	Kawasaki Heavy Industries, Ltd.
41, 42	Kwang Yang Motor Co., Ltd.

Poster Session Program

20130917

No.	Contents	8th Oct.	9th Oct.	10th Oct.
1	Graz University of Technology Franz Winkler Institute for Internal Combustion Engines and Thermodynamics An Innovative Two-Stroke Twin-Cylinder Engine Layout for Range Extending Application	BP		
2	Graz University of Technology Hermann Edtmayer, Research Area Design Institute for Internal Combustion Engines and Thermodynamics Investigation of a Standard Lawn Mower Engine in Real World Operation	BP		
3	Nihon University Tomomi Miyasaka, Iijima Lab. Department of Mechanical Engineering, College of Science and Technology Visualization and Spectroscopic Analysis of the Knocking in Spark Ignition Engine	BP		
4	Kanazawa University Shogo Kunioka, Internal Combustion Engine Lab. Graduate School of Natural Science and Technology Observation of Luminous Flame with Fuel Droplet Array	BP		
5	Chiba University Syunsuke Goto, Moriyoshi and Kuboyama Lab. Graduate School of Engineering Reduction in Knocking Intensity by Spatial Temperature Stratification of Mixture	BP		
6	Nihon University Yasuhide Abe, Iijima Lab. Department of Mechanical Engineering, College of Science and Technology A Study of Supercharged HCCI Combustion using Spectroscopic Techniques and Chemical Kinetic Calculation	BP	BP	
7	Nagasaki University Mitsunori Kawaharada, Ueki and Sakaguchi Lab. Graduate School of Engineering Characterization of Near-Nozzle Diesel Sprays by Using L2F		BP	
8	Kanazawa University Hirotaka Nozue, Internal Combustion Engine Lab. Graduate School of Natural Science and Technology Effect of Generated Gas Component Fluctuation from Wood Biomass Gasifier on Small Spark Ignition Engine		BP	
9	Nihon University Masayuki Yamasawa, Yoshida Lab. Department of Mechanical Engineering, College of Science and Technology An Application of Cellulosic Liquefaction Fuel for Diesel Engine		BP	
10	Kun Shan University Rong-Fang Hong, Vehicle Energy Lab. Department of Mechanical Engineering Investigation on the Re-Starting Characteristics of a Motorcycle Engine Performing an Idle-Stop Approach			BP
11	Hokkaido University Qian Xiong, Applied Thermal Engineering Lab. (Ogawa Lab.) Graduate School of Engineering Improvements in Thermal Efficiency of Premixed Diesel Combustion with Low Distillation Temperature Fuels			BP
12	Nihon University Akira Iijima, Iijima Lab. Department of Mechanical Engineering, College of Science and Technology Visualization and Spectroscopic Measurement of Knocking Combustion Accompanied by Cylinder Pressure Oscillations in an HCCI Engine			BP
13	Nihon University Koji Yoshida, Yoshida Lab. Department of Mechanical Engineering, College of Science and Technology An Influence of Non-Uniform Electric Field on Premixed Flame Propagation			BP

BP

Notified Period

→ Brief Presentation

8th Oct. 15:30-16:00 (During Coffee Break)

9th Oct. 10:00-10:30 (During Coffee Break)

10th Oct. 10:00-10:30 (During Coffee Break)

SPECIAL EVENTS

WELCOME RECEPTION

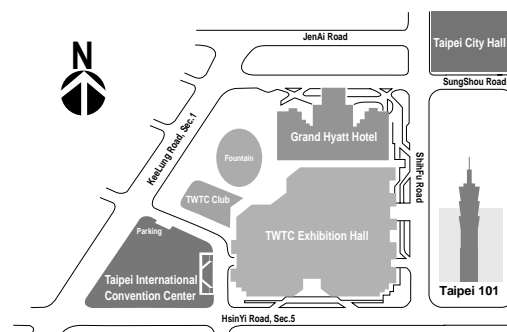
Date: Tuesday, October 8, 2013

Time: 18:30-20:30

Venue: 33F, Taipei World Trade Center (TWTC)



Attend free and enjoy magnificent night view of Taipei City.
Serve standing-buffet.



BANQUET

Date: Wednesday, October 9, 2013

Time: 18:30-21:00

Venue: Banquet Hall, 3F, Taipei International Convention Center

Fee NT\$2,400/coupon

Seated buffet

Apply online registration website.

The seats will be reserved on first-come & first-served basis and application may be declined or put on a waiting list when they are fully booked.

The Banquet is located at the same venue of the conference. It is a nice opportunity to socialize and network with all the colleagues and friends, and enjoy local cuisine and experience the cultural performance.

LUNCH, AWARD AND CLOSING CEREMONY

CLOSING CEREMONY

Thursday, October 10th, 12:00 – 14:00 at Banquet Hall, 3F

The Closing Ceremony will take place in the latter half of Lunch time.

CHAIR

Mr. Yutaka Nitta (SUZUKI MOTOR CORPORATION)

Dr. Robert Kee (Queen's University Belfast)

Prof. Yuh-Yih Wu (National Taipei University of Technology)

Mr. Minoru Iida (Yamaha Motor Co., Ltd.)

SUMMARY OF THE CONFERENCE

COMMENDATION CONFERMENT

1. High Quality and Best Paper Awards
2. High Quality Presentation Award
3. Best Collegiate Event Award
4. Best Poster Award
5. Taiwanese Special Award

INTRODUCTION OF SETC2014

Mr. Stefano Giovannelli, General Director of Tuscany Economic Promotion Agency (TEPA)

Mr. Giuseppe Pozzana, Direttore, Pont-Tech srl

TECHNICAL VISITS

Monday, October 7, 2013

Two routes will be arranged for technical visits to be held on Monday, October 2013 for all day long. JSAE and SAE International Taipei Section would like to express special thanks to DELTA Electronics, Inc., National Taiwan University, SYM (Sangyang Industry Co., Ltd.) and ITRI (Industry Technology of Research Institute) to provide us with valuable visit experience.

All day long

Fee NT\$1,500/coupon (lunch inclusive)

- ◉ The conference registered attendees only
- ◉ Apply from online Registration website with first-come & first-served basis
- ◉ Time schedule including departure place will be informed to the applicant in due course

ROUTE A: TAIPEI

Time: 08:00-16:30

08:00	Departure from Lobby, 1F, TICC
	DELTA (DELTA Electronics, Inc.)
	National Taiwan University
	Lunch
	National Palace Museum
16:30	Taipei 101(dismiss)



DELTA

DELTA is a leading world-class provider of:

- Power management solutions
- IT, telecom, consumer and automotive electrics components
- Visual displays including microdisplay PTVs
- Networking and wireless solutions.



NATIONAL TAIWAN UNIVERSITY

Being the first integrated and most prestigious institution of higher education in Taiwan area, National Taiwan University has taken up the responsibility of promoting the level of academic research study and teaching in Taiwan.



NATIONAL PALACE MUSEUM

The National Palace Museum (NPM) in Taipei is home to one of the foremost collections of Chinese art and objects in the world. The extensive range includes bronzes, jades, ceramics, lacquerware, curios, calligraphy, painting, rare books, documents, and many others.



ROUTE B: HSINCHU

Time: 08:00-16:30

08:00	Departure from Lobby, 1F, TICC
	SYM (Sanyang Industry Taiwan Co., Ltd.)
	ITRI (Industrial Technology Research Institute of Taiwan, R.O.C.)
	Lunch
	Taiwan Pavilion
16:30	Taipei 101(dismiss)



SYM

SYM is proud of leading the powered vehicle industry in Taiwan. The full line up contains Scooters, Mopeds, Motorcycles and ATVs. Now SYM is a well-known brand for its worldwide distribution with advanced technology and design.



ITRI

ITRI is a nonprofit R&D organization engaging in applied research and technical services. Founded in 1973, ITRI has played a vital role in transforming Taiwan's economy from a labor-intensive industry to a high-tech industry. Numerous well-known, high-tech companies in Taiwan, such as leaders in the semiconductor industry TSMC and UMC, can trace their origins to ITRI.



TAIWAN PAVILION

Taiwan pavilion begins its operation in February, 2013. It is re-established in Hsinchu with an area about 4.3 hectares, along with the plan of an industrial innovation park which also includes Taiwan Street.

SETC2013 Session Timetable

(20minute-presentation & 10minute-discussion / each paper)

October 8th Tuesday	9:00-10:30	Opening Ceremony & Keynote Speech (at Room 201BCDE, 2F)				
	10:30-11:00	Coffee Break				
	Room	201A	201F	102	103	
	11:00-12:00	Alternative Fuels I Chair : H. Omote	Engine Components I Chair : T. Kobayashi	Engine Technology I Chair : H. Okumura	Fuel Supply Systems I Chair : M. Iida	
		Co-Chair : M. Bertsch	Co-Chair : K. Fosaaen	Co-Chair : N. Mavinahally	Co-Chair : R. Kee	
		20139038/2013-32-9038	20139016/2013-32-9016	20139015/2013-32-9015	20139047/2013-32-9047	
		20139059/2013-32-9059	20139073/2013-32-9073	20139104/2013-32-9104	20139122/2013-32-9122	
	12:00-13:30	Lunch (at Banquet Hall, 3F)				
	Room	201A	201B	201C	201D	201E
	13:30-15:30	Alternative Fuels II Chair : H. Omote	Two Stroke Engine Chair : Y. Motoyama	Engine Technology II Chair : H. Okumura	Fuel Supply Systems II Chair : M. Iida	Measurement & Simulation I Chair : T. Okazaki
		Co-Chair : S. Frigo	Co-Chair : B. Callahan	Co-Chair : N. Mavinahally	Co-Chair : R. Kee	Co-Chair : S. Schmidt
		20139080/2013-32-9080	20139036/2013-32-9036	20139032/2013-32-9032	20139128/2013-32-9128	20139023/2013-32-9023
		20139097/2013-32-9097	20139078/2013-32-9078	20139060/2013-32-9060	20139126/2013-32-9126	20139124/2013-32-9124
		20139115/2013-32-9115	20139133/2013-32-9133	20139081/2013-32-9081	20139167/2013-32-9167	20139125/2013-32-9125
October 9th Wednesday		20139131/2013-32-9131	20139143/2013-32-9143	20139084/2013-32-9084		20139127/2013-32-9127
	15:30-16:00	Coffee Break, Brief Presentation of Poster Session				
	16:00-18:00	Materials I Chair : H. Kurita	Diesel Engine Chair : T. Maeda	Engine Technology III Chair : M. Nakagawa	Hybrids, Electric Drives & Fuel Cells I Chair : Y. Muramatsu	Measurement & Simulation II Chair : S. Fujii
		Co-Chair : K. Fosaaen	Co-Chair : B. Callahan	Co-Chair : S. Frigo	Co-Chair : G. Bower	Co-Chair : S. Schmidt
		20139012/2013-32-9012	20139021/2013-32-9021	20139105/2013-32-9105	20139006/2013-32-9006	20139034/2013-32-9034
		20139110/2013-32-9110	20139022/2013-32-9022	20139160/2013-32-9160	20139009/2013-32-9009	20139043/2013-32-9043
		20139049/2013-32-9049	20139103/2013-32-9103	20139161/2013-32-9161	20139018/2013-32-9018	20139044/2013-32-9044
		20139029/2013-32-9029	20139112/2013-32-9112	20139114/2013-32-9114	20139035/2013-32-9035	20139096/2013-32-9096
	8:30-10:00	Alternative Fuels III Chair : Yuh-Yih Wu	Lubricants Chair : H. Kurita	Engine Technology IV Chair : S. Chiba	Collegiate Events Chair : T. Mitome	Measurement & Simulation III Chair : T. Okazaki
		Co-Chair : K. Beck	Co-Chair : B. Dohner	Co-Chair : N. Mavinahally	Co-Chair : G. Bower	Co-Chair : S. Schmidt
		20139174/2013-32-9174			20139100/2013-32-9100	20139079/2013-32-9079
		20139134/2013-32-9134	20139033/2013-32-9033	20139169/2013-32-9169	20139118/2013-32-9118	20139162/2013-32-9162
		20139156/2013-32-9156	20139063/2013-32-9063	20139093/2013-32-9093	20139176/2013-32-9176	20139157/2013-32-9157
	10:00-10:30	Coffee Break, Brief Presentation of Poster Session				
	10:30-12:00	Materials II Chair : Le-Min Wang	Engine Components II Chair : T. Kobayashi	Engine Controls I Chair : M. Uno	Hybrids, Electric Drives & Fuel Cells II Chair : Jung-Ho Chen	Advanced Combustion I Chair : K. Yoshida
		Co-Chair : S. Gurchinoff	Co-Chair : F. Auriemma	Co-Chair : T. Raatz	Co-Chair : G. Bower	Co-Chair : K. Fosaaen
		20139046/2013-32-9046	20139102/2013-32-9102	20139041/2013-32-9041	20139132/2013-32-9132	20139002/2013-32-9002
		20139082/2013-32-9082	20139163/2013-32-9163	20139061/2013-32-9061	20139071/2013-32-9071	20139030/2013-32-9030
		20139111/2013-32-9111	20139068/2013-32-9068	20139037/2013-32-9037	20139072/2013-32-9072	20139144/2013-32-9144
	12:00-13:30	Lunch (at Banquet Hall, 3F)				
	13:30-15:30	Emissions I Chair : H. Deguchi	HCCI I Chair : Y. Moriyoshi	Engine Controls II Chair : M. Uno	Hybrids, Electric Drives & Fuel Cells III Chair : Y. Muramatsu	Advanced Combustion II Chair : K. Yoshida
		Co-Chair : K. Beck	Co-Chair : M. Bertsch	Co-Chair : T. Raatz	Co-Chair : G. Bower	Co-Chair : K. Fosaaen
		20139058/2013-32-9058	20139031/2013-32-9031	20139062/2013-32-9062	20139119/2013-32-9119	20139116/2013-32-9116
		20139050/2013-32-9050	20139054/2013-32-9054	20139042/2013-32-9042	20139045/2013-32-9045	20139117/2013-32-9117
		20139052/2013-32-9052	20139098/2013-32-9098	20139040/2013-32-9040	20139120/2013-32-9120	20139123/2013-32-9123
		20139055/2013-32-9055	20139166/2013-32-9166	20139066/2013-32-9066	20139087/2013-32-9087	
	15:30-15:45	Coffee Break				
	15:45-18:05	Plenary Session "Motorcycles in Asian Region" (at Room102, 1F)				
October 10th Thursday	8:30-10:00	Emissions II Chair : H. Deguchi	HCCI II Chair : T. Shiozaki	Engine Controls III Chair : T. Mitome	Vehicle Dynamics & Safety I Chair : M. Baba	
		Co-Chair : K. Beck	Co-Chair : R. Gentili	Co-Chair : T. Raatz	Co-Chair : B. Dohner	
		20139057/2013-32-9057				
		20139053/2013-32-9053	20139070/2013-32-9070	20139065/2013-32-9065	20139026/2013-32-9026	
		20139064/2013-32-9064	20139083/2013-32-9083	20139003/2013-32-9003	20139106/2013-32-9106	
	10:00-10:30	Coffee Break, Brief Presentation of Poster Session				
	10:30-12:00	Emissions III Chair : H. Deguchi	HCCI III Chair : T. Shiozaki	Engine Controls IV Chair : Bo-Chiuan Chen	Vehicle Dynamics & Safety II Chair : M. Baba	NVH Technology Chair : T. Okazaki
		Co-Chair : K. Beck	Co-Chair : B. Callahan	Co-Chair : T. Raatz	Co-Chair : R. Kee	Co-Chair : R. Kirchberger
		20139091/2013-32-9091	20139069/2013-32-9069	20139007/2013-32-9007	20139165/2013-32-9165	20139001/2013-32-9001
		20139130/2013-32-9130	20139171/2013-32-9171	20139020/2013-32-9020	20139173/2013-32-9173	20139148/2013-32-9148
		20139150/2013-32-9150	20139172/2013-32-9172	20139094/2013-32-9094	20139175/2013-32-9175	20139164/2013-32-9164
	12:00-14:00	Lunch, Award & Closing Ceremony (at Banquet Hall, 3F)				

List of Papers

October 8th Tuesday

11:00 - 12:00

Room.	201A
Session	Alternative Fuels I
Chair (Affiliation)	Hiroshi Omote (LEMA / YANMAR Co., Ltd.)
co-chair (Affiliation)	Markus Bertsch (MOT GmbH)

Paper No.(JSAE/SAE)	20139038 / 2013-32-9038
Paper title	Diesel Fuel by Scrap-Tyre Thermal-Mechanical Pyrolysis
Author (Affiliation)	Stefano Frigo, Roberto Gentili, Maurizia Seggiani, Monica Puccini (University of Pisa)

Paper No.(JSAE/SAE)	20139059 / 2013-32-9059
Paper title	Study on Operation Characteristics of Gasohol Biofuel in Motorcycle Engine
Author (Affiliation)	Yuh-Yih Wu, Jhih-Si Syu, Meng-Chieh Li (National Taipei University of Technology), Zong-Da Lin (Industrial Technology Research Institute)

Room.	201F
Session	Engine Components I
Chair (Affiliation)	Toshimi Kobayashi (Kawasaki Heavy Industries, Ltd.)
co-chair (Affiliation)	Ken Fosaaen (Fosaaen Technologies, LLC.)

Paper No.(JSAE/SAE)	20139016 / 2013-32-9016
Paper title	Design Methodology and Advantages of Centrifugal Type Decompression Device of Engine
Author (Affiliation)	Pochun Liu, Chih-Wen Yu and Yuwei Ning (Sanyang Industry Co., Ltd)

Paper No.(JSAE/SAE)	20139073 / 2013-32-9073
Paper title	Experimental Investigations of Forced Air Cooling for Continuously Variable Transmission (CVT)
Author (Affiliation)	Abhishek Lakhanlal Vaishya, Sachin Phadnis (TVS Motor Company Limited)

Room.	102
Session	Engine Technology I
Chair (Affiliation)	Hideyuki Okumura (JMIA / Yamaha Motor Co., Ltd.)
co-chair (Affiliation)	Nagesh Mavinahally (Mavin Tech, LLC.)

Paper No.(JSAE/SAE)	20139015 / 2013-32-9015
Paper title	High Performance Characteristics of a Motorcycle Powered by a Four-Stroke Small 50cc-125cc Engine at the Expense of a Positive Displacement Air Compressor as a Supercharger
Author (Affiliation)	Konstantin Evgenievich Starodetko , Simon Simand, Tcheslav Bronislavovich Drobychevskij, Vladimir Jurievich Belyaev, Konstantin Nikolaevich Yurchuk (International Academy of Information Technologies), Aliaksandr Aliaksandrovich Vitsiaz (Bereza Motor Rebuilt Plant), Dmitry Vasilievich Kuzmenkov (Tascotrade Company)

Paper No.(JSAE/SAE)	20139104 / 2013-32-9104
Paper title	Development of New Industrial Spark Ignited Bi-Fuel Engine
Author (Affiliation)	Koji Fujimura, Shinji Kishi, Takeshi Kawasaki, Takahiro Tokunaga Kentaro Shiraishi (KUBOTA Corporation)

Room.	103
Session	Fuel Supply Systems I
Chair (Affiliation)	Minoru Iida (Yamaha Motor Co., Ltd.)
co-chair (Affiliation)	Robert Kee (Queen's University of Belfast)

Paper No.(JSAE/SAE)	20139047 / 2013-32-9047
Paper title	Development of Plastic Fuel Hose with Pressure Pulsation Reduction
Author (Affiliation)	Kota Nakauchi, Atsushi Ito, Takeshi Ohara, Hideaki Kato, Hisayoshi Ogura, Shosuke Suzuki (Honda R&D Co., Ltd., Motorcycle R&D Center)

Paper No.(JSAE/SAE)	20139122 / 2013-32-9122
Paper title	Evaluation of value proposition and interactive features for motorcycles with electronic fuel injection for Indian market
Author (Affiliation)	Pradeep R, Pramod R, Ajay Shetty, Prabhu Panduranga M. (Robert Bosch India Limited)

List of Papers

October 8th Tuesday

13:30 – 15:30

Room.	201A
Session	Alternative Fuels II
Chair (Affiliation) co-chair (Affiliation)	Hiroshi Omote (LEMA / YANMAR Co., Ltd.) Stefano Frigo (University of Pisa)

Paper No.(JSAE/SAE)	20139080 / 2013-32-9080
Paper title	Combustion Characteristics of a DI Diesel Engine with Short and Medium Chain Saturated Fatty Acid Methyl Esters
Author (Affiliation)	Eiji Kinoshita, Kazuyo Fushimi (Kagoshima University), Yasufumi Yoshimoto (Niigata Institute of Technology)

Paper No.(JSAE/SAE)	20139097 / 2013-32-9097
Paper title	Effect of Butanol Isomer on Diesel Combustion Characteristics of Butanol/Gas Oil Blend
Author (Affiliation)	Kazuyo Fushimi, Eiji Kinoshita (Kagoshima University), Yasufumi Yoshimoto (Niigata Institute of Technology)

Paper No.(JSAE/SAE)	20139115 / 2013-32-9115
Paper title	Effects of Spark Ignition Timing on Exhaust Gas Component and Temperature with Wood Biomass Gasifier
Author (Affiliation)	Hiroshi Enomoto, Hirotaka Nozue, Noboru Hieda (Kanazawa University)

Paper No.(JSAE/SAE)	20139131 / 2013-32-9131
Paper title	Optimization of Waste Chicken Fat Pre-Treatment Process for Biodiesel Production
Author (Affiliation)	Naresh Kumar Gurusala, Arul Mozhi Selvan V, Ajay Balan, Shreyas Athreya (National Institute of Technology, Tiruchirappalli, Tamil Nadu)

Room.	201B
Session	Two Stroke Engine
Chair (Affiliation) co-chair (Affiliation)	Yuh Motoyama (Yamaha Motor Co., Ltd.) Brian Callahan (Achates Power & Basco)

Paper No.(JSAE/SAE)	20139036 / 2013-32-9036
Paper title	Development of Test Bench and Characterization of Performance in Small Internal Combustion Engines
Author (Affiliation)	Joseph K. Ausserer, Paul J. Litke (United States Air Force), Alexander Rowton, Marc Polanka (University of Dayton Research Institute), Alexander Rowton, Marc Polanka (Air Force Institute of Technology), Keith Grinstead (Innovative Scientific Solutions Incorporated)

Paper No.(JSAE/SAE)	20139078 / 2013-32-9078
Paper title	Engine Scavenging Tuning for In-Field Product Expectations of a 45cc Stratified Two-Stroke Power Head
Author (Affiliation)	M Bergman, R Sundkvist (Husqvarna AB)

Paper No.(JSAE/SAE)	20139133 / 2013-32-9133
Paper title	An Innovative Two-Stroke Twin-Cylinder Engine Layout for Range Extending Application
Author (Affiliation)	A. Abis, F. Winkler, C. Schwab, R. Kirchberger, H. Eichlseder (Graz University of Technology)

Paper No.(JSAE/SAE)	20139143 / 2013-32-9143
Paper title	Is a High Pressure Direct Injection System a Solution to Reduce Exhaust Gas Emissions in a Small Two-Stroke Engine?
Author (Affiliation)	Markus Bertsch, Kai W. Beck, Thomas Matousek, Ulrich Spicher (MOT GmbH)

List of Papers

October 8th Tuesday

13:30 – 15:30

Room.	201C
Session	Engine Technology II
Chair (Affiliation)	Hideyuki Okumura (JMIA/Yamaha Motor Co., Ltd.)
co-chair (Affiliation)	Nagesh Mavinahally (Mavin Tech, LLC.)

Paper No.(JSAE/SAE)	20139032 / 2013-32-9032
Paper title	Extension of Lean Burn Range by Intake Valve Offset
Author (Affiliation)	Hideki Saito, Takamori Shirasuna, Tomokazu Nomura (Honda R&D Co., Ltd.)

Paper No.(JSAE/SAE)	20139060 / 2013-32-9060
Paper title	An Investigation on Cranking Torque Reduction for Four-Stroke Motorcycle Engine
Author (Affiliation)	Yong-Jing Zou, Yuh-Yih Wu, Yao-Chung Liang, Hsin-Hong Lin (National Taipei University of Technology)

Paper No.(JSAE/SAE)	20139081 / 2013-32-9081
Paper title	Numerical Investigations of Overexpanded Cycle and Exhaust Gas Recirculation for a Naturally Aspirated Lean Burn Engine
Author (Affiliation)	Denis Neher, Maurice Kettner, Fino Scholl (University of Applied Sciences Karlsruhe), Markus Klaissle, Danny Schwarz (SenerTec Kraft-Wärme-Energiesysteme GmbH), Blanca Giménez Olavarria (University of Valladolid)

Paper No.(JSAE/SAE)	20139084 / 2013-32-9084
Paper title	Development of an Novel Non-eccentric Rotational Engine "Ishino Engine" (Fundamental Configuration and Characteristics)
Author (Affiliation)	Yojiro Ishino, Keisuke Teshima, Hiroyuki Fujii, Yusaku Yamamoto, Yu Saiki (Nagoya Institute of Technology)

Room.	201D
Session	Fuel Supply Systems II
Chair (Affiliation)	Minoru Iida (Yamaha Motor Co., Ltd.)
co-chair (Affiliation)	Robert Kee (Queen's University of Belfast)

Paper No.(JSAE/SAE)	20139128 / 2013-32-9128
Paper title	Evaluating the behavior of carbureted engines using a fast response fuel consumption measurement device with minor impact on engine characteristics
Author (Affiliation)	Jürgen Tromayer, Gerd Neumann, Alexander Trattner, Roland Kirchberger (Graz University of Technology), Hans van den Hoevel (AVL Deutschland)

Paper No.(JSAE/SAE)	20139126 / 2013-32-9126
Paper title	Spray Characteristics of Local-contact Microwave-heating Injector Fueled with Ethanol
Author (Affiliation)	Lukas Kano Mangalla, Hiroshi Enomoto (Kanazawa University)

Paper No.(JSAE/SAE)	20139167 / 2013-32-9167
Paper title	Measurement of fuel liquid film under the different injection pressure
Author (Affiliation)	Keiji Muramatsu, Kenji Yamamoto, Naoki Jinno, Kenjiro Nakama (SUZUKI MOTOR CORPORATION), Shinya Okamoto, Tsuneaki Ishima (Gunma University)

List of Papers

October 8th Tuesday

13:30 – 15:30

Room.	201E
Session	Measurement & Simulation I
Chair (Affiliation)	Tadao Okazaki (LEMA / Kubota Corporation)
co-chair (Affiliation)	Stephan Schmidt (Graz University of Technology)

Paper No.(JSAE/SAE)	20139023 / 2013-32-9023
Paper title	A Comparative Study on Map Based and Closed Loop Simulation Model of Coolant Circuit for a Two Wheeler Liquid Cooled Engine
Author (Affiliation)	N. Karthikeyan, Anish Gokhale (Mahindra 2 Wheelers Limited)

Paper No.(JSAE/SAE)	20139124 / 2013-32-9124
Paper title	Real World Operation of a Standard Lawn Mower Engine from a Scientific Perspective
Author (Affiliation)	Hermann Edtmayer, Alexander Trattner, Stephan Schmidt, Roland Kirchberger (Graz University of Technology) Jakob Trentini, Johann Weiglhofer (Viking GmbH)

Paper No.(JSAE/SAE)	20139125 / 2013-32-9125
Paper title	Start/Stop Strategies for Two-Wheelers in the Emerging Markets
Author (Affiliation)	Bernd Heinzmann, Simon Scholz (Robert Bosch GmbH) Pramod R, Prashanth Anantha (Bosch India Ltd)

Paper No.(JSAE/SAE)	20139127 / 2013-32-9127
Paper title	Development of a Thermal Model within a Complete Vehicle Simulation for Motorcycles and Powersport Applications
Author (Affiliation)	P. Rieger, J. Girstmair, St. Schmidt, R. Almbauer, R. Kirchberger (Graz University of Technology)

List of Papers

October 8th Tuesday

16:00 – 18:00

Room.	201A
Session	Materials I
Chair (Affiliation)	Hiroataka Kurita (Yamaha Motor Co., Ltd.)
co-chair (Affiliation)	Ken Fosaaen (Fosaaen Technologies, LLC)

Paper No.(JSAE/SAE)	20139012 / 2013-32-9012
Paper title	High Performance Polymers for Small Engine Applications
Author (Affiliation)	Stephen Gurchinoff, Duane Fish, Brian Stern (Solvay Specialty Polymers)

Paper No.(JSAE/SAE)	20139110 / 2013-32-9110
Paper title	Creep Resistance of 2024 Aluminum Alloy
Author (Affiliation)	Le Min Wang, Chih-Jrn Tsai (National Defense University)

Paper No.(JSAE/SAE)	20139049 / 2013-32-9049
Paper title	Corrosion resistance improvement technology of anodic oxide films on aluminum alloy that uses a lithium hydroxide solution
Author (Affiliation)	Masahiro Fujita, Hiroomi Tanaka, Hitoshi Muramatsu (SUZUKI MOTOR CORPORATION), Sachiko Ono, Hidetaka Asoh (Kogakuin University)

Paper No.(JSAE/SAE)	20139029 / 2013-32-9029
Paper title	Suction flow improvement of Plasma spray cylinder in Outboard Motor
Author (Affiliation)	Hideya Kumagai (Yamaha Motor Co., Ltd.)

Room.	201B
Session	Diesel Engine
Chair (Affiliation)	Takeshi Maeda (Honda R&D Co.,Ltd.)
co-chair (Affiliation)	Brian Callahan (Achates Power & Basco)

Paper No.(JSAE/SAE)	20139021 / 2013-32-9021
Paper title	Effect of Spray/Wall Interaction on Diesel Combustion and Soot Formation in Two-Dimensional Piston Cavity
Author (Affiliation)	Kuichun Li, Masaki Ido, Yoichi Ogata, Keiya Nishida, Baolu Shi (University of Hiroshima), Daisuke Shimo (Mazda Motor Corporation)

Paper No.(JSAE/SAE)	20139022 / 2013-32-9022
Paper title	Combustion Characteristics of Emulsified Blends of Water and Diesel Fuel in a Diesel Engine with Cooled EGR and Pilot Injection
Author (Affiliation)	Hideyuki Ogawa, Gen Shibata and Takaki Kato (Hokkaido University), Hari Setiaprada (The agency for assessment and application of technology), Kosuke Hara (YANMAR Co., Ltd.)

Paper No.(JSAE/SAE)	20139103 / 2013-32-9103
Paper title	CFD Modeling of a Turbo-charged Common-rail Diesel Engine
Author (Affiliation)	Guan-Jhong Wang, Chia-Jui Chiang, Yu-Hsuan Su (National Taiwan University of Science and Technology), Yong-Yuan Ku (Automotive Research and Testing Center)

Paper No.(JSAE/SAE)	20139112 / 2013-32-9112
Paper title	Study on Combustion and Soot Emission of Ethanol or Butanol Blended with Gas Oil in a Direct Injection Diesel Engine
Author (Affiliation)	Shohei Yamamoto, Shotaro Watanabe, Keisuke Komada, Daisaku Sakaguchi, Hironobu Ueki, Masahiro Ishida (Nagasaki University)

List of Papers

October 8th Tuesday

16:00 – 18:00

Room.	201C
Session	Engine Technology III
Chair (Affiliation)	Michihisa Nakagawa (Kawasaki Heavy Industries, Ltd.)
co-chair (Affiliation)	Stefano Frigo (University of Pisa)

Paper No.(JSAE/SAE)	20139105 / 2013-32-9105
Paper title	Investigation on Friction Behaviour of a Single Cylinder Gasoline Engine
Author (Affiliation)	T Sukumaran Vipin, Joseph Sumith, Allwyn Dias, K Chandra Reddy, S Saju, Mohan D Umate (TVS Motor Company Ltd.)

Paper No.(JSAE/SAE)	20139160 / 2013-32-9160
Paper title	The Numerical Investigation on the Performance of Rotary Engine with Leakage, Different Fuels and Recess Sizes
Author (Affiliation)	Dun-Zen Jeng, Ming-June Hsieh, Chih-Chuan Lee (Chung-Shan Institute of Science and Technology), Yu Han (National Chung Hsing University)

Paper No.(JSAE/SAE)	20139161 / 2013-32-9161
Paper title	The Intake and Exhaust Pipe Effect on Rotary Engine Performance
Author (Affiliation)	Dun-Zen Jeng, Ming-June Hsieh, Chih-Chuan Lee (Chung-Shan Institute of Science and Technology), Yu Han (National Chung Hsing University)

Paper No.(JSAE/SAE)	20139114 / 2013-32-9114
Paper title	Effects of EGR on Knock-level of Small Spark Ignition Engine with Gasoline-base Kerosene-mixed Fuel
Author (Affiliation)	Hiroshi Enomoto, Hirotaka Nozue, Noboru Hieda (Kanazawa University)

Room.	201D
Session	Hybrids, Electric Drives & Fuel Cells I
Chair (Affiliation)	Yasuyuki Muramatsu (Yamaha Motor Co., Ltd.)
co-chair (Affiliation)	Glenn Bower (University of Wisconsin-Madison)

Paper No.(JSAE/SAE)	20139006 / 2013-32-9006
Paper title	Development of a New Regenerative Braking System
Author (Affiliation)	Takahiro Noyori, Setsuko Komada, Hirobumi Awakawa (SUZUKI MOTOR CORPORATION)

Paper No.(JSAE/SAE)	20139009 / 2013-32-9009
Paper title	Design and Analysis of Single-cylinder 22 HP Hybrid Powertrain for Motorcycles
Author (Affiliation)	Chun-Hsien Wu, Wei-Ming Su, Pei-Jen Wang (National Tsing Hua University)

Paper No.(JSAE/SAE)	20139018 / 2013-32-9018
Paper title	Adaptive-Learning Regeneration Controller Design for Electric Vehicles
Author (Affiliation)	Chien-An Chen, Ming-Chih Lin (Automotive Research & Testing Center)

Paper No.(JSAE/SAE)	20139035 / 2013-32-9035
Paper title	A Research on the Application Layer Protocols of Wireless Communication of Electric Vehicle
Author (Affiliation)	Yen-Chun Lai (Automotive Research & Testing Center)

List of Papers

October 8th Tuesday

16:00 – 18:00

Room.	201E
Session	Measurement & Simulation II
Chair (Affiliation)	Sigeru Fujii (Yamaha Motor Co., Ltd.)
co-chair (Affiliation)	Stephan Schmidt (Graz University of Technology)

Paper No.(JSAE/SAE)	20139034 / 2013-32-9034
Paper title	Stress prediction of engine components resulting from an engine vibration
Author (Affiliation)	Masahiro Akei, Kouich Kouzato, Toshiyuki Uyama (YANMAR Co.,Ltd.)

Paper No.(JSAE/SAE)	20139043 / 2013-32-9043
Paper title	Development of Strength Analysis Method for Off-Road Motorcycle Radiator Assembly
Author (Affiliation)	Masakazu Yamaya, Akihiro Chiba, Yuuki Murayama (Yamaha Motor Co., Ltd.)

Paper No.(JSAE/SAE)	20139044 / 2013-32-9044
Paper title	Application of FEM Analysis Using Loads Predicted from Strain Measurement in Motorcycle Frame Development
Author (Affiliation)	Mitsuo Hirai, Takashi Ueno, Youhei Iwaki, Shojiro Oohama (Yamaha Motor Co., Ltd.)

Paper No.(JSAE/SAE)	20139096 / 2013-32-9096
Paper title	Development of Estimation for Strain in Damages of Motorcycle Engine Parts When Tipped Over from Stationary State
Author (Affiliation)	Shigesato Nakamura, Hisayoshi Ogura, Kota Noguchi, Yasuhiro Miyazaki (Honda R&D Co., Ltd.)

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October 9th Wednesday

8:30 - 10:00

Room.	201A
Session	Alternative Fuels III
Chair (Affiliation)	Yuh-Yih Wu (National Taipei University of Technology.)
co-chair (Affiliation)	Kai W. Beck (MOT GmbH)

Paper No.(JSAE/SAE)	20139174 / 2013-32-9174
Paper title	An Application of Cellulosic Liquefaction Fuel for Diesel Engine -Improvement of Fuel Property by Cellulosic Liquefactionwith Plastics -
Author (Affiliation)	Kohei Suzuki, Akira Iijima, Hideo Shoji, Koji Yoshida (Nihon University)

Paper No.(JSAE/SAE)	20139134 / 2013-32-9134
Paper title	The Feasibility Study of Low-concentration Butanol as Fuel on Motorcycle
Author (Affiliation)	Ta-Chuan Liu, Zong-Da Lin, Chia-Yun Yeh, Yun-Yang Chen (Industrial Technology Research Institute)

Paper No.(JSAE/SAE)	20139156 / 2013-32-9156
Paper title	Development of Alternative Fuel Content Estimation Method and Apparatus
Author (Affiliation)	Masayoshi Uno, Takashi Abe, Shinichi Kuratani (Kawasaki Heavy Industries, Ltd.)

9:00 - 10:00

Room.	201B
Session	Lubricants
Chair (Affiliation)	Hiroataka Kurita (Yamaha Motor Co., Ltd.)
co-chair (Affiliation)	Brent Dohner (The Lubrizol Corporation)

Paper No.(JSAE/SAE)	20139033 / 2013-32-9033
Paper title	Highly Efficient Lubricant for Sport Motorcycle Application –Fuel Economy and Durability Testing
Author (Affiliation)	Gianluigi Zoli, May Turner, Cliff Newman (Castrol Ltd.)

Paper No.(JSAE/SAE)	20139063 / 2013-32-9063
Paper title	Improving Fuel Efficiency of Motorcycle Oils
Author (Affiliation)	Brent Dohner, Alex Michlberger, Chris Castanien (The Lubrizol Corporation), Ananda Gajanayake (Lubrizol Japan Ltd.), Sumitaka Hirose (Honda R&D Co., Ltd.)

9:00 - 10:00

Room.	201C
Session	Engine Technology IV
Chair (Affiliation)	Shosaku Chiba (Honda R&D Co., Ltd.)
co-chair (Affiliation)	Nagesh Mavinahally (Mavin Tech, LLC.)

Paper No.(JSAE/SAE)	20139169 / 2013-32-9169
Paper title	Predictive Simulation of PFI Engine Combustion and Emission
Author (Affiliation)	Hisashi Goto, Takeshi Morikawa, Mineo Yamamoto, Minoru Iida (Yamaha Motor Co., Ltd.)

Paper No.(JSAE/SAE)	20139093 / 2013-32-9093
Paper title	Investigation on the Re-starting Characteristics of a Motorcycle Engine Performing an Idle-stop Approach
Author (Affiliation)	Rong Fang Horng, Chiu Wei Cheng, Wu Dong Han, Liao Cheng Hsun, Yo Fu Peng (Kun Shan University), Tsai Chien Hsiung, Tseng Chyuan Yow (Pingtung University of Science and Technology)

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October 9th Wednesday

8:30 - 10:00

Room.	201D
Session	Collegiate Events
Chair (Affiliation)	Takashi Mitome (SUZUKI MOTOR CORPORATION)
co-chair (Affiliation)	Glenn R. Bower (The University Wisconsin Madison)

Paper No.(JSAE/SAE)	20139100 / 2013-32-9100
Paper title	Aerodynamic design for SR11 (Formula SAE racing car)
Author (Affiliation)	Tetsuya Fujimoto, Takashi Suzuki (Sophia University)

Paper No.(JSAE/SAE)	20139118 / 2013-32-9118
Paper title	Improving the Fuel Economy of Supercharged Engine
Author (Affiliation)	Yoshiki Fukuhara, Naoya Kimata, Takashi Suzuki (Sophia University)

Paper No.(JSAE/SAE)	20139176 / 2013-32-9176
Paper title	Developing Best Available Technology in a Flex-Fuel Snowmobile by using a Lean-Burn Miller Cycle
Author (Affiliation)	Matt Birt, Gregory W. Davis (Kettering University)

8:30 - 10:00

Room.	201E
Session	Measurement & Simulation III
Chair (Affiliation)	Tadao Okazaki (LEMA / Kubota Corporation)
co-chair (Affiliation)	Stephan Schmidt (Graz University of Technology)

Paper No.(JSAE/SAE)	20139079 / 2013-32-9079
Paper title	CFD Scavenging Simulation & Verification of a Sequentially Stratified Charged Two-Stroke Engine
Author (Affiliation)	M Bergman, N Enander, M Lawenius (Husqvarna AB)

Paper No.(JSAE/SAE)	20139162 / 2013-32-9162
Paper title	Evaluation Method for Motorcycle Mode Fuel Consumption using a One-Dimensional Engine Simulation
Author (Affiliation)	Masahito SAITOU, Kenji INOUE, Motohiko NISHIMURA, Hidekazu IWASAKI, Takashi YOSHIYAMA, Atsushi HISANO and Daisuke SAKOU (Kawasaki Heavy Industries, Ltd)

Paper No.(JSAE/SAE)	20139157 / 2013-32-9157
Paper title	Prediction of the Cavitation Effect on the Flow Around the Outboard Motor Propeller Blade Hydrofoil Section Using CFD
Author (Affiliation)	Akira Kamiya (Yamaha Motor Co., Ltd.)

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October 9th Wednesday

10:30 - 12:00

Room.	201A
Session	Materials II
Chair (Affiliation)	Le-Min Wang (National Defense University)
co-chair (Affiliation)	Stephen Thomas Gurchinoff (Solvay Specialty Polymers)

Paper No.(JSAE/SAE)	20139046 / 2013-32-9046
Paper title	The effect of surface morphology of cylinder bore surface on anti-scurffing property made by high pressure die-casting process using hyper-eutectic Al-Si alloy
Author (Affiliation)	Takehiro Uhara, Hirotaka Kurita (Yamaha Motor Co., Ltd.)

Paper No.(JSAE/SAE)	20139082 / 2013-32-9082
Paper title	Application of Vacuum Assisted Carbide Dispersion Carbonitriding to Connecting Rods
Author (Affiliation)	Tsuyoshi Kubota (Yamaha Motor Co., Ltd.)

Paper No.(JSAE/SAE)	20139111 / 2013-32-9111
Paper title	Development of HPDC Alloy for Motorcycle Wheel Using Recycled Aluminum
Author (Affiliation)	Yukihide Fukuda, Masahiko Nakagawa, Toshimitsu Suzuki (Honda R&D Co., Ltd.)

Room.	201B
Session	Engine Components II
Chair (Affiliation)	Toshimi Kobayashi (Kawasaki Heavy Industries, Ltd.)
co-chair (Affiliation)	Fabio Auriemma (Tallinn University of Technology)

Paper No.(JSAE/SAE)	20139102 / 2013-32-9102
Paper title	Improvement of Powder Metallurgy Gears for Engines and Transmissions
Author (Affiliation)	Paul Skoglund, Ola Litström (Höganäs China Ltd), Dr. Anders Flodin (Höganäs AB)

Paper No.(JSAE/SAE)	20139163 / 2013-32-9163
Paper title	Idle Air Control Valve for the Small Engine Market
Author (Affiliation)	Hong Dian, Chen Kun, Cheng Tao (Continental Automotive Wuhu China), Craig Weldon P.Eng (Continental Tire Canada), Alois Christiaens, Ren Jie (Continental Automotive Belgium N.V)

Paper No.(JSAE/SAE)	20139068 / 2013-32-9068
Paper title	Development of Advanced Propeller Damper (Shift Dampener System)
Author (Affiliation)	Yohei Kuroki, Hiroyuki Tsunekawa, Shunsuke Yukawa (Yamaha Motor Co., Ltd.)

Room.	201C
Session	Engine Controls I
Chair (Affiliation)	Masayoshi Uno (Kawasaki Heavy Industries, Ltd.)
co-chair (Affiliation)	Thorsten Raatz (Robert Bosch LLC)

Paper No.(JSAE/SAE)	20139041 / 2013-32-9041
Paper title	Reduced-order Modeling of Intake Air Dynamics in Single-cylinder Four-stroke Engine
Author (Affiliation)	Shun-ichi Akama, Yasunori Murayama, and Shigeo Sakoda (Yamaha Motor Co., Ltd.)

Paper No.(JSAE/SAE)	20139061 / 2013-32-9061
Paper title	Estimation of Intake Manifold Absolute Pressure Using Kalman Filter
Author (Affiliation)	Bo-Chiuan Chen, Yuh-Yih Wu, Hsien-Chi Tsai (National Taipei University of Technology)

Paper No.(JSAE/SAE)	20139037 / 2013-32-9037
Paper title	Online engine speed based adaptation of air charge for two-wheelers
Author (Affiliation)	Christian Steinbrecher, Bastian Reineke, Jürgen Berkemer, Henning Heikes, Wolfgang Fischer (Robert Bosch GmbH)

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October 9th Wednesday

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Room.	201D
Session	Hybrids, Electric Drives & Fuel Cells II
Chair (Affiliation)	Jung-Ho Chen, (National Taiwan University)
co-chair (Affiliation)	Glenn Bower (University of Wisconsin-Madison)

Paper No.(JSAE/SAE)	20139132 / 2013-32-9132
Paper title	Single Cylinder 25kW Range Extender as Alternative to a Rotary Engine Maintaining High Compactness and NVH Performance
Author (Affiliation)	Christian Hubmann, Frank Beste, Hubert Friedl, Wolfgang Schoffmann (AVL List GmbH)

Paper No.(JSAE/SAE)	20139071 / 2013-32-9071
Paper title	Development of Belt-Driven Starter-Generator Control Strategy for Hybrid Electric Vehicle
Author (Affiliation)	Qing-Lin Chen, Jieng-jang Liu, Pai-Hsiu Lu (China Engine Corporation, Taiwan)

Paper No.(JSAE/SAE)	20139072 / 2013-32-9072
Paper title	Development of the idle-stop starter with pre- and post-engage pinion gear
Author (Affiliation)	Chih-Wei Hu, Shih-Lin Lin, Heng-Chih Tang, Ting-Chi Kao, Andrew P.H. Lu (China Engine Corporation)

Room.	201E
Session	Advanced Combustion I
Chair (Affiliation)	Koji Yoshida (Nihon University)
co-chair (Affiliation)	Ken Fosaaen (Fosaaen Technologies, LLC.)

Paper No.(JSAE/SAE)	20139002 / 2013-32-9002
Paper title	Effects of Intake System with Swirl and Tumble Valve on the Combustion in a Small Four Stroke Engine
Author (Affiliation)	Hui-Ting Chang, Chih-Wei Huang, Kuan-Hsu Lin, Wen-Cheng Hu (SANYANG INDUSTRY CO., LTD.)

Paper No.(JSAE/SAE)	20139030 / 2013-32-9030
Paper title	A Study of the Effects of Varying the Supercharging Pressure and Fuel Octane Number on Spark Ignition Engine Knocking using Spectroscopic Measurement and In-cylinder Visualization
Author (Affiliation)	Takashi Ishino, Norikuni Hayakawa, Tomomi Miyasaka, Akira Iijima, Koji Yoshida, Hideo Shoji (Nihon University)

Paper No.(JSAE/SAE)	20139144 / 2013-32-9144
Paper title	Influence of High Frequency Ignition on the Combustion and Emission Behaviour of Small Two-Stroke Spark Ignition Engines
Author (Affiliation)	Clemens Hampe, Markus Bertsch, Kai W. Beck, Ulrich Spicher (MOT GmbH) Steffen Bohne, Georg Rixecker (BorgWarner Beru Systems)

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October 9th Wednesday

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Room.	201A
Session	Emissions I
Chair (Affiliation)	Hiromi Deguchi (SUZUKI MOTOR CORPORATION)
co-chair (Affiliation)	Kai W. Beck (MOT GmbH)

Paper No.(JSAE/SAE)	20139058 / 2013-32-9058
Paper title	Misfire Diagnostic Strategy for Motorcycles
Author (Affiliation)	Hsien-Chi Tsai, Bo-Yu Gao, Ming-Hao Chiang, Bo-Chiuan Chen, Yuh-Yih Wu (National Taipei University of Technology)

Paper No.(JSAE/SAE)	20139050 / 2013-32-9050
Paper title	Exhaust Emissions Characteristics of Scooters on the Real World in Taiwan
Author (Affiliation)	Su, Kao-Chun, Chuang, Chih-Wei (Automotive Research & Testing Center) Chen, Hsin-Yi, Pei-Chang Wen, Chen, Hsueh-Heng (Chung-Hua Institution for Economic Research)

Paper No.(JSAE/SAE)	20139052 / 2013-32-9052
Paper title	Feasibility Study of Emission Improvement through Transient Emission Characteristics Analysis for Idle-Stop Motorcycles
Author (Affiliation)	Chao-Lung Chen, Zong-Da Lin (Industrial Technology Research Institute)

Paper No.(JSAE/SAE)	20139055 / 2013-32-9055
Paper title	Feasibility of Using Half Useful Life Mileage Accumulation for Motorcycle Certification Durability Tests in Taiwan
Author (Affiliation)	Shin-Hui Lin, Chao-Lung Chen (Industrial Technology Research Institute)

Room.	201B
Session	HCCI I
Chair (Affiliation)	Yasuo Moriyoshi (Chiba University)
co-chair (Affiliation)	Markus Bertsch (MOT GmbH)

Paper No.(JSAE/SAE)	20139031 / 2013-32-9031
Paper title	A Study of the Effects Varying Compression Ratio and Fuel Octane Number on HCCI Engine Combustion using Spectroscopic Octane Number on HCCI Engine Combustion using Spectroscopic Measurement
Author (Affiliation)	Akira Terashima, Naoya Ito, Tomoya Tojo, Akira Iijima, Koji Yoshida, Hideo Shoji (Nihon University)

Paper No.(JSAE/SAE)	20139054 / 2013-32-9054
Paper title	Influence of Fuel Properties on Operational Range and Thermal Efficiency of Premixed Diesel Combustion
Author (Affiliation)	Qian Xiong, Kazuki Inaba, Hideyuki Ogawa, Gen Shibata (Hokkaido University)

Paper No.(JSAE/SAE)	20139098 / 2013-32-9098
Paper title	A Study of Controlled Auto-Ignition in Small Natural Gas Engines
Author (Affiliation)	Hibiki Koga, Toshiro Kiura (Honda R&D Co., Ltd.)

Paper No.(JSAE/SAE)	20139166 / 2013-32-9166
Paper title	Visualization and Spectroscopic Measurement of Knocking Combustion Accompanied by Cylinder Pressure Oscillations in an HCCI Engine
Author (Affiliation)	Akira Iijima, Mitsuaki Tanabe, Koji Yoshida, Hideo Shoji, Naoya Itoh, Akira Terashima, Tomoya Tojo (Nihon University)

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October 9th Wednesday

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Room.	201C
Session	Engine Controls II
Chair (Affiliation)	Masayoshi Uno (Kawasaki Heavy Industries, Ltd.)
co-chair (Affiliation)	Thorsten Raatz (Robert Bosch LLC)

Paper No.(JSAE/SAE)	20139062 / 2013-32-9062
Paper title	Development of Torque-Based Engine Management System for Range Extender Engine
Author (Affiliation)	Yao-Chung Liang, Hsien-Chi Tsai, Yuh-Wen Peng, Yuh-Yih Wu (National Taipei University of Technology)

Paper No.(JSAE/SAE)	20139042 / 2013-32-9042
Paper title	Torque Control of Rear Wheel by Using Inverse Dynamics of Rubber/Aramid Belt Continuous Variable Transmission
Author (Affiliation)	Shun-ichi Akama, Yasunori Murayama, and Shigeho Sakoda (Yamaha Motor Co., Ltd.)

Paper No.(JSAE/SAE)	20139040 / 2013-32-9040
Paper title	Construction of Data-setting Configuration Using Prescribed Template and Profile for Competition Motorcycles
Author (Affiliation)	Takashi Suda, Koichi Tsunokawa, Satoru Kanno and Xi Sun (Keihin Corporation) Yue Zhou (Keihin R&D China Co., Ltd.)

Paper No.(JSAE/SAE)	20139066 / 2013-32-9066
Paper title	Providing Calibration Tools for Cost Sensitive Electronic Control Systems
Author (Affiliation)	Garrard, M.R. (Freescale Semiconductors UK), Tobin, P. (EFI Analytics) Grippo, A. (B.G.Soflex)

Room.	201D
Session	Hybrids, Electric Drives & Fuel Cells III
Chair (Affiliation)	Yasuyuki Muramatsu (Yamaha Motor Co., Ltd.)
co-chair (Affiliation)	Glenn Bower (University of Wisconsin-Madison)

Paper No.(JSAE/SAE)	20139119 / 2013-32-9119
Paper title	The Development of Non-contact Torque and Angle Sensor for Intelligent Power Assist System
Author (Affiliation)	Chau-Chih Yu, Jin-Yan Hsu, Tsung-Hua Hsu (Automotive Research & Testing Center)

Paper No.(JSAE/SAE)	20139045 / 2013-32-9045
Paper title	Development of Torque Sensor with Nickel-iron Alloy Plating for Pedal-equipped Electric Vehicles
Author (Affiliation)	Kentaro Ikegami (Honda R&D Co., Ltd.)

Paper No.(JSAE/SAE)	20139120 / 2013-32-9120
Paper title	Study of Different Arrangement of Magnets for the Purpose of Reducing Magnet Usage in Designing an Integrated Starter/Generator for Hybrid Vehicles
Author (Affiliation)	Kai-Fan Hsueh, Jung-Ho Cheng (National Taiwan University) Yi-Shen Chen, Andrew Lu(CEC Engine Co. Ltd)

Paper No.(JSAE/SAE)	20139087 / 2013-32-9087
Paper title	Two-speed Automatic Transmissions of Electric Scooters
Author (Affiliation)	Kuo-ching Chen, Keng-tso Chuang, Han-hsueh Liu, Ching-ya Chen (CHINA MOTOR CORPORATION)

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Room.	201E
Session	Advanced Combustion II
Chair (Affiliation)	Koji Yoshida (Nihon University)
co-chair (Affiliation)	Ken Fosaaen (Fosaaen Technologies, LLC.)

Paper No.(JSAE/SAE)	20139116 / 2013-32-9116
Paper title	Small Kerosene Droplet Evaporation Near Butane Diffusion Flame
Author (Affiliation)	Hiroshi Enomoto, Shogo Kunioka, Lukas Kano Mangalla, Noboru Hieda (Kanazawa University)

Paper No.(JSAE/SAE)	20139117 / 2013-32-9117
Paper title	Observation of Kerosene Droplet Evaporation under High Pressure and High Temperature Environment
Author (Affiliation)	Hiroshi Enomoto, Shunsuke Sawasaki, Kosuke Nishioka, Lukas Kano Mangalla (Kanazawa University)

Paper No.(JSAE/SAE)	20139123 / 2013-32-9123
Paper title	Behavior of Small Fuel Droplet near Butane Diffusion Flame
Author (Affiliation)	Hiroshi Enomoto, Shogo Kunioka, Noboru Hieda (Kanazawa University).

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October 10th Thursday

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Room.	201A
Session	Emission II
Chair (Affiliation)	Hiromi Deguchi (SUZUKI MOTOR CORPORATION)
co-chair (Affiliation)	Kai W. Beck (MOT GmbH)

Paper No.(JSAE/SAE)	20139057 / 2013-32-9057
Paper title	New VM R750 engine family: a different approach to reach the emission limit
Author (Affiliation)	Emilio Bertoni, Alessandro Mazza, Carlo Ricci (VM Motori), Lorenzo Pace, Manuel Presti (Emitec G.m.b.H.)

Paper No.(JSAE/SAE)	20139053 / 2013-32-9053
Paper title	Durable Catalyst Formulations For Four-stroke Small Engines
Author (Affiliation)	W. Boll, M. Bonifer, R. Kiemel, U. Endruschat (Heraeus Precious Metals GmbH & Co. KG)

Paper No.(JSAE/SAE)	20139064 / 2013-32-9064
Paper title	Drive Cycle Fuel Economy and Engine-Out Emissions Evaluation Using an Opposed-Piston Sleeve-Valve Engine with Lean Operation and Ignition Delay for NOx Control
Author (Affiliation)	Michael A. Willcox, James M. Cleaves (Pinnacle Engines)

9:00 - 10:00

Room.	201B
Session	HCCI II
Chair (Affiliation)	Tomoo Shiozaki (Honda R&D Co., Ltd.)
co-chair (Affiliation)	Roberto Gentili (University of Pisa)

Paper No.(JSAE/SAE)	20139070 / 2013-32-9070
Paper title	A Study of Fuel and EGR Stratification to Reduce Pressure-Rise Rates in a HCCI Engine
Author (Affiliation)	Kyohei Ozaki, Dong-Won Jung, Norimasa Iida (Keio University)

Paper No.(JSAE/SAE)	20139083 / 2013-32-9083
Paper title	Potential of Stratification Charge for Reducing Pressure-Rise Rate in HCCI Engines Based on Multi-Zone Modeling and Experiments by using RCM
Author (Affiliation)	Shota Ito, Hiroki Ikeda, Dong-Won Jung, Norimasa Iida (Keio University)

9:00 - 10:00

Room.	201C
Session	Engine Controls III
Chair (Affiliation)	Takashi Mitome (SUZUKI MOTOR CORPORATION)
co-chair (Affiliation)	Thorsten Raatz (Robert Bosch LLC)

Paper No.(JSAE/SAE)	20139065 / 2013-32-9065
Paper title	Detecting the Misfire of Motorcycle Engine with Wide Band Oxygen Sensor
Author (Affiliation)	Yameogo Amadou, Chang-Tai Wu, Yu-Cheng Jiang, and Jau-Huai Lu (National Chung Hsing University)

Paper No.(JSAE/SAE)	20139003 / 2013-32-9003
Paper title	FlexFuel Strategy for 2-wheeler
Author (Affiliation)	Erika Xavier, Ariel Bepu, Martin Leder, Walter Arens (Robert Bosch Ltda)

9:00 - 10:00

Room.	201D
Session	Vehicle Dynamics & Safety I
Chair (Affiliation)	Masayuki Baba (Honda R&D Co.,Ltd.)
co-chair (Affiliation)	Brent Dohner (Lubrizol UK)

Paper No.(JSAE/SAE)	20139026 / 2013-32-9026
Paper title	Effects of the Compensated Control of Gradient for the Haptic Throttle Grip
Author (Affiliation)	Manabu Fujito, Yasunobu Harazono and Kouji Sakai (Yamaha Motor Co., Ltd.)

Paper No.(JSAE/SAE)	20139106 / 2013-32-9106
Paper title	Development of New Concept Two-Wheel Steering System for Motorcycles
Author (Affiliation)	Tetsuya Kimura, Yusuke Ando, Eiichiro Tsujii (Yamaha Motor Co., Ltd.)

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October 10th Thursday

10:30 – 12:00

Room.	201A
Session	Emission III
Chair (Affiliation)	Hiromi Deguchi (SUZUKI MOTOR CORPORATION)
co-chair (Affiliation)	Kai W. Beck (MOT GmbH)

Paper No.(JSAE/SAE)	20139091 / 2013-32-9091
Paper title	1-D Modeling and Experimental Evaluation of Secondary Air Injection system for a Small SI Engine
Author (Affiliation)	Pratap C Kavekar (TVS Motor CO Ltd)

Paper No.(JSAE/SAE)	20139130 / 2013-32-9130
Paper title	A demonstration of emissions' behaviour of various handheld engines including investigations on particulate matter
Author (Affiliation)	Cécile Favre, John May, Dirk Bosteels (Association for Emissions Control by Catalyst (AECC) AISBL), Jürgen Tromayer, Gerd Neumann (Graz University of Technology)

Paper No.(JSAE/SAE)	20139150 / 2013-32-9150
Paper title	Physical Characterization of Biodiesel Particle Emission by Electron Microscopy
Author (Affiliation)	Preechar Karin, Yutthana Songsaengchan (King Mongkut's Institute of Technology Ladkrabang), Songtam Laosuwan, Chinda Charoenphonphanich (King Mongkut's Institute of Technology Ladkrabang), Nuwong Chollacoop (National Science and Technology Development Agency), Katsunori Hanamura (Tokyo Institute of Technology)

Room.	201B
Session	HCCI III
Chair (Affiliation)	Tomoo Shiozaki (Honda R&D Co., Ltd.)
co-chair (Affiliation)	Brian Callahan (Achates Power & Basco)

Paper No.(JSAE/SAE)	20139069 / 2013-32-9069
Paper title	Closed-Loop Combustion Control of a HCCI Engine with Re-breathing EGR System
Author (Affiliation)	Yusuke Nakamura, Dong-Won Jung, Norimasa Iida (Keio University)

Paper No.(JSAE/SAE)	20139171 / 2013-32-9171
Paper title	A Study of Supercharged HCCI Combustion using In-cylinder Spectroscopic Techniques and Chemical Kinetic Calculation
Author (Affiliation)	Yasuhide Abe, Yuma Ishizawa, Go Emori, Mitsuo Asanuma, Akira Iijima, Hideo Shoji (Nihon University), Kazuhito Misawa, Yusuke Kiguti, Hiraku Kojima, Shunichi Mori, Kenjiro Nakama (SUZUKI MOTOR CORPORATION)

Paper No.(JSAE/SAE)	20139172 / 2013-32-9172
Paper title	Evaluation of the Performance of a Boosted HCCI Gasoline Engine with Blowdown Supercharge System
Author (Affiliation)	Shunsuke Gotoh, Tatsuya Kuboyama, Yasuo Moriyoshi (Chiba University), Koichi Hatamura (Hatamura Engine Research Office), Toshio Yamada (IDAJ Co., LTD.), Junichi Takanashi, Yasuhiro Urata (Honda R&D Co., LTD.)

List of Papers

October 10th Thursday

10:30 – 12:00

Room.	201C
Session	Engine Controls IV
Chair (Affiliation) co-chair (Affiliation)	Bo-Chiuan Chen (National Taipei University of Technology) Thorsten Raatz (Robert Bosch LLC)

Paper No.(JSAE/SAE)	20139007 / 2013-32-9007
Paper title	A 5cm square gasoline Engine Controller based upon an advanced System in Package semiconductor device
Author (Affiliation)	Garrard M. (Freescale Semiconductors UK), Edwards, W (Freescale Semiconductors Inc.)

Paper No.(JSAE/SAE)	20139020 / 2013-32-9020
Paper title	Thermal Optimization Process for Small Engine Control Units
Author (Affiliation)	Christian Schweikert, Marco Nicolò, Dirk Schweitzer (Infineon Technology AG, Germany), David Witt (Infineon Technologies, North America)

Paper No.(JSAE/SAE)	20139094 / 2013-32-9094
Paper title	Implementation of Software and Hardware solutions for battery-less systems
Author (Affiliation)	Marco Cortecchia, Claudio Gonella (Mectronik s.r.l.)

Room.	201D
Session	Vehicle Dynamics & Safety II
Chair (Affiliation) co-chair (Affiliation)	Masayuki Baba (Honda R&D Co.,Ltd.) Robert Kee (Queen's University Belfast)

Paper No.(JSAE/SAE)	20139165 / 2013-32-9165
Paper title	Development of Technology for Measuring Dynamic Deformation of Motorcycle Bodies
Author (Affiliation)	Yasushi Nakamura, Kazuhiro Ichikawa, Takumi Kawasaki, Yasuhisa Okabe, Hiroshi Ishii, Akiyuki Yamasaki (Kawasaki Heavy Industries, Ltd.)

Paper No.(JSAE/SAE)	20139173 / 2013-32-9173
Paper title	Evaluation of Injury Risks and Benefits of a Crush Protection Device (CPD) for All-Terrain Vehicles (ATVs)
Author (Affiliation)	John W. Zellner, Scott A. Kebschull, R. Michael Van Auken (Dynamic Research, Inc.)

Paper No.(JSAE/SAE)	20139175 / 2013-32-9175
Paper title	Testing of ABS Systems for 2-Wheelers via Hardware-in-the-Loop Technology
Author (Affiliation)	Steven Shenker, Rosana Yamasaki, Tobias Kreuzinger (ETAS K.K., Japan)

Room.	201E
Session	NVH Technology
Chair (Affiliation) co-chair (Affiliation)	Tadao Okazaki (LEMA / Kubota Corporation) Roland Kirchberger (Graz University of Technology)

Paper No.(JSAE/SAE)	20139001 / 2013-32-9001
Paper title	Application of Novel Micro-Grooved Elements to Small Engine Silencer
Author (Affiliation)	Fabio Auriemma, Hans Rämmal, Jüri Lavrentjev (Tallinn University of Technology)

Paper No.(JSAE/SAE)	20139148 / 2013-32-9148
Paper title	The trial to quantify the feeling of sound & vibration (“Kodo-kan”) for the Motorcycle.
Author (Affiliation)	Kenta Suzuki, Hitoshi Uchida, Shogo Kida, Tsutomu Sonehara, Keisuke Namekawa (SUZUKI MOTOR CORPORATION)

Paper No.(JSAE/SAE)	20139164 / 2013-32-9164
Paper title	Development of Intake Sound Control Technique for Sports-Type Motorcycles
Author (Affiliation)	Kenta Matsubara, Noritaka Nakamura, Yota Katsukawa, Kenichi Furuhashi (Kawasaki Heavy Industries, Ltd.)

SETC2014 CALL FOR PAPERS



Small Engine Technology Conference Call for Papers / Presentations

Small Engine Technology Conference & Exhibition
11-13 November
Palazzo dei Congressi; Pisa, Italy

The SETC Conference and Exhibition circulates between Asia, Europe and the United States. The 20th SETC meeting is scheduled for Pisa, Italy. Major subject areas on which abstracts are invited (but not limited to):

- Advanced Combustion
- Alternative Fuels
- Collegiate Events
- Measurement & Simulation
- Diesel Engines
- Emissions
- Environmental Impacts
- Engine Components
- Engine Controls
- Engine Technology
- Fuel Supply Systems
- HCCI
- Hybrids, Electric Drives, Fuel Cells
- Lubricants
- Materials
- NVH Technology
- Two Stroke Engines
- Vehicle Dynamics & Safety
- Vehicle Components

Papers/presentations should be applications oriented, contribute to state-of-the-art technology with conclusions supported by technical data, and be devoid of commercialism. Authors should prepare their papers in hard metric (SI) units. No paper is accepted without a presentation.

Prospective authors are asked to submit electronic abstracts of 300-500 words for consideration including a tentative paper title, author(s) name(s), mailing address, e-mail address, telephone and fax numbers. In addition, each abstract should:

- State the main conclusions of the proposed paper.
- Summarize the process by which the conclusions were reached.
- State the significance of the work to the progress of relevant engineering areas.
- Indicate whether the paper has ever been presented before.

Abstracts are to be submitted on-line via the SAE website: www.sae.org/setc . Upon submission, you will receive an automatic reply with your paper offer number.

Important deadline dates:

- Abstracts – March 3, 2014
- Draft Manuscripts – May 1, 2014
- Final Papers - September 2, 2014

For more information, please contact:

- Colette Wright
Program Developer
724-772-8517
wright@sae.org
- Joan Hudson
Conference Administrator
724-772-4003
jhudson@sae.org

TAIPEI INFORMATION

INTRODUCTION

The city is situated in a basin in northern Taiwan that was inhabited by aboriginal people until settlers from China moved into the area about 300 years ago. Eastern Taipei was largely underused fields until the nineteen-seventies, when the city began to develop the area as a financial and commercial district. Here, the modern face of Taipei shines through, with its glass and steel skyscrapers, wide boulevards, and the world's tallest building, Taipei 101.

Taipei also boasts dozens of world-class performance venues, where you can enjoy world-class theater and concert events. The city also offers a wide range of other diversions -- shopping malls, nightclubs, live-music bars, quality hotels, and exotic restaurants.

PUBLIC TRANSPORTATION

Taipei Mass Rapid Transit System (MRT)

The system operates according to a spoke-hub distribution paradigm, with most rail lines running radically outward from central Taipei.

- Operation Hour: Daily from 6AM to midnight; extended services during special events.
- Frequency: 1.5 to 15 minutes intervals depending on the line and time of day.
- Fare:
 - ◎ "Single-journey Ticket for Cyclists" costs NT\$80 valid for one person with a single bicycle.
 - ◎ "One-day Pass" costs NT\$150 with unlimited travel within one day; can be purchased from a service booth.

See page 72 for Taipei Metro Map.

City Bus

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Taipei City Bus operates daily from 6AM to midnight with extended services during special events.

Learn more about Taipei Bus routes and schedules at <http://www.taipeibus.taipei.gov.tw/TPBUS.aspx?lang=eng>

Sightseeing in Taipei



SHILIN NIGHT MARKET

is the one of the largest night markets in Taipei. Shilin Market is famous for various snacks and eatery. Many visitors have come to Shilin Night Market to enjoy the delicious foods, such as large pancake enfolding small pancake, hot pot on stone or Shilin sausage. Shilin Night Market has become a renowned place for great foods.

Address: Between end of Wenlin Rd., Jihe Rd. and Zhongshan N. Rd.

MRT: Take the MRT and exist at the Jiantan Stop.



GUANGHUA MARKET

is the place to go in Taipei for computer equipment and other electronic gadgets, with over a hundred shops selling the high-tech items. In addition to computers and other electronic peripherals, the market also sells branded sportswear and athletic gear, DVDs and CDs, posters, PC and console games, books, stereo equipment, mobile phones and more. The market is known for its wide variety, low prices and convenient comparison shopping, making it a magnet for budget-minded student shoppers.

Address: No.77, Jinshan N. Rd., Jhongjheng District, Taipei City

MRT: Take the MRT and exist at Zhongxiao Xinseng Station (Exit 1) then walk about 5 minute towards Civic Blvd.



THE NATIONAL PALACE MUSEUM

houses the world's largest collection of priceless Chinese art treasures, one which spans China's nearly 5,000-year history. Most of the museum's 620,000 art objects were part of the Chinese imperial collection, which began over 1,000 years ago in the early Song dynasty.

Address: No.221, Sec. 2, Zhishan Rd., Shilin District, Taipei City

MRT: Take the MRT to the Shilin Station and take bus R30 (Red 30) to the National Palace Museum.



CHIANG KAI-SHEK MEMORIAL HALL

is located in the heart of Taipei City. The area is 250,000 square meters and it is the attraction most visited by foreign tourists. Outside the gate of Chiang Kai-shek Memorial Hall, there are poles carrying the sign of true rightness. The architecture of Chiang Kai-shek Memorial Hall is inspired by Tientam in Beijing. The four sides of the structure are similar to those of the pyramids in Egypt.

Address: No.21, Zhongshan S. Rd., Zhongzheng District, Taipei City

MRT: Take the MRT and exist at CKS Memorial Hall (Exit 5).



LONGSHAN TEMPLE

is a famous old temple in Taiwan for worshipping Guanshiyin Buddha and other divine spirits. Its architecture is a three-section design in shape built in Qianlong 5th year in Qing Dynasty. On each 1st and 15th day each month of lunar year, regular visitors will come to the temple for worship ceremony. Longshan Temple is not only a temple, a sightseeing attraction, but also a second-degree historical site.

Address: No. 211, Guangzhou St., Wanhua District, Taipei City

MRT: Take the MRT and exist at Longshan Temple Station.



TAIPEI 101

, with a mass of shops on the lower floors, incorporating many top brands under the LVMH group, such as Louis Vuitton, Dior, Celine, etc. The fourth floor houses the Page One bookstore from Singapore, with the highest-roofed coffee house in Taipei and many fine restaurants.

Address: 89F, No. 7, Sec. 5, Xinyi Rd., Xinyi District, Taipei City

MRT: Take the MRT and exist at Taipei City Hall Station then walk about 5 minute towards Xinyi Shopping District.



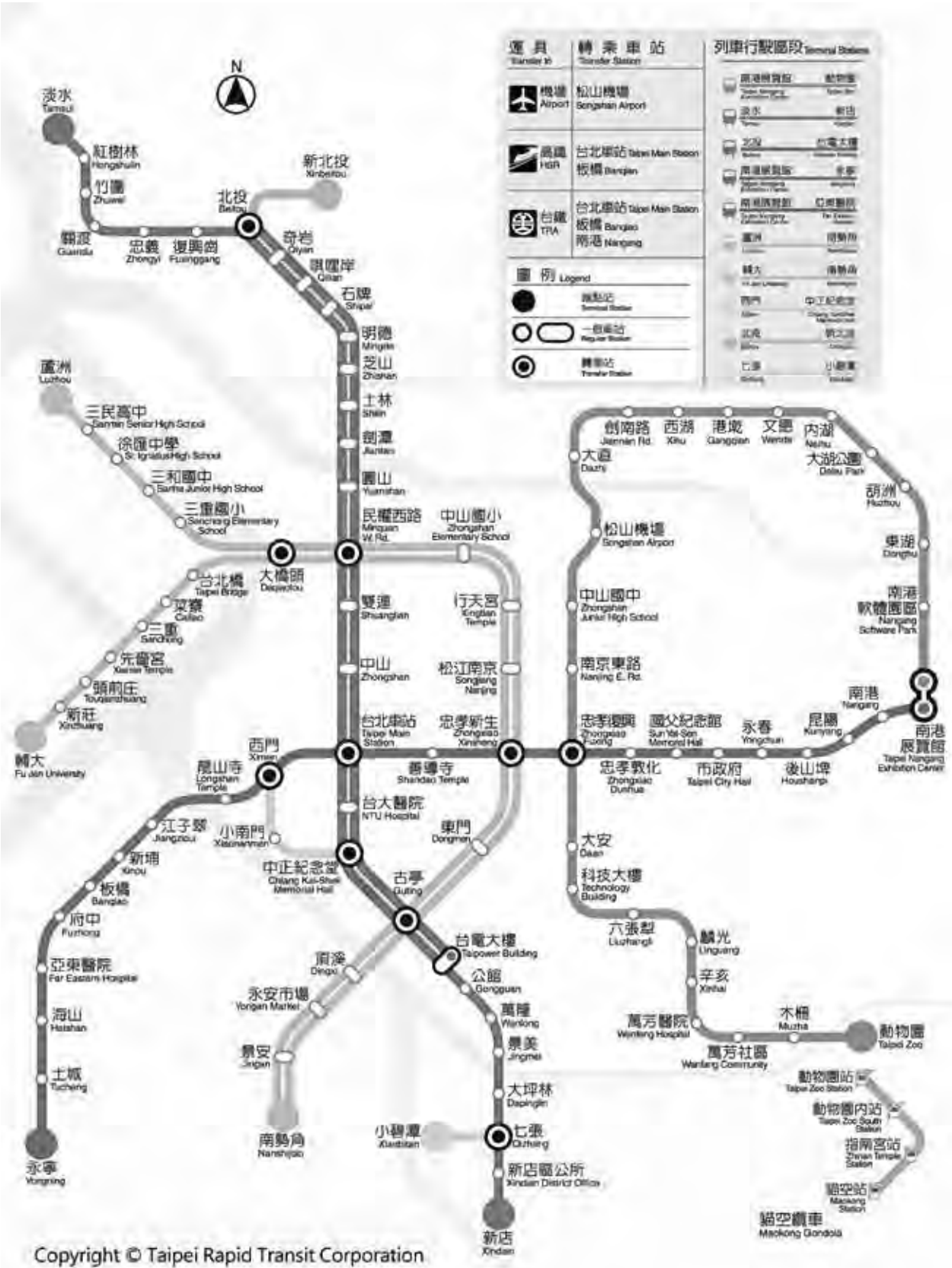
MAOKONG GONDOLA

is located in the southern tip of Taipei City, and the system began operation in July 2007. Since then it has evolved into a favorite tourist destination for locals and visitors. It is Taipei City's first high-altitude gondola. This French POMA-made system makes a circuit of four stations: Taipei Zoo Station, Taipei Zoo South Station, Zhinan Temple Station, and Maokong Station.

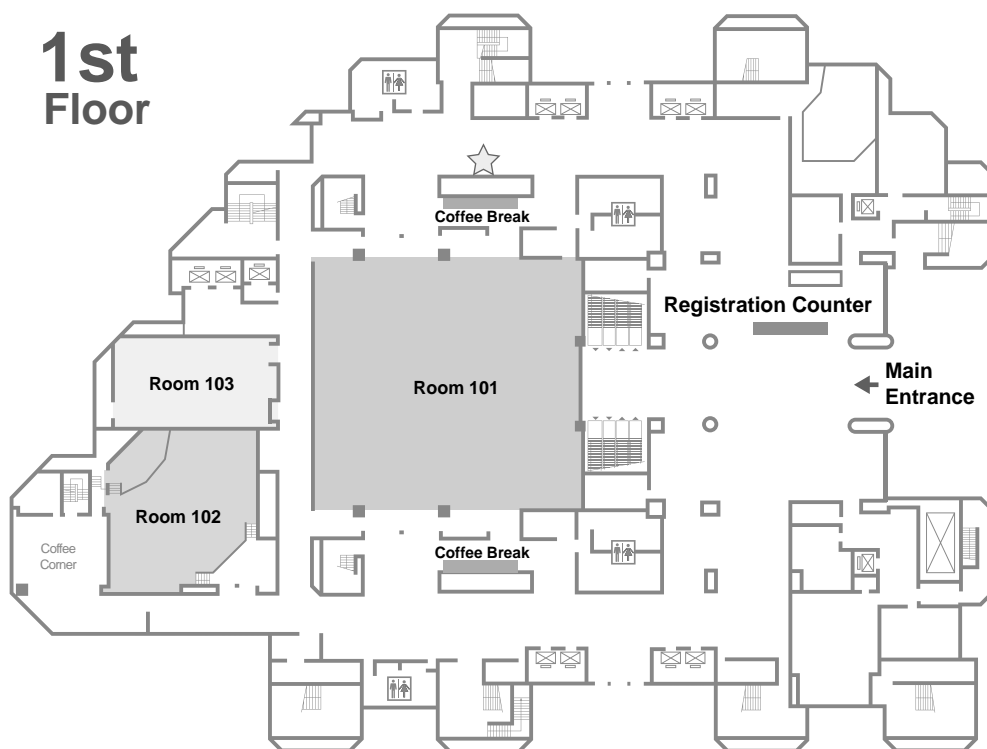
Address: Sec. 2, Xinguang Rd., Wenshan District, Taipei City

MRT: Take the MRT and exist at Taipei Zoo.

TAIPEI METRO MAP



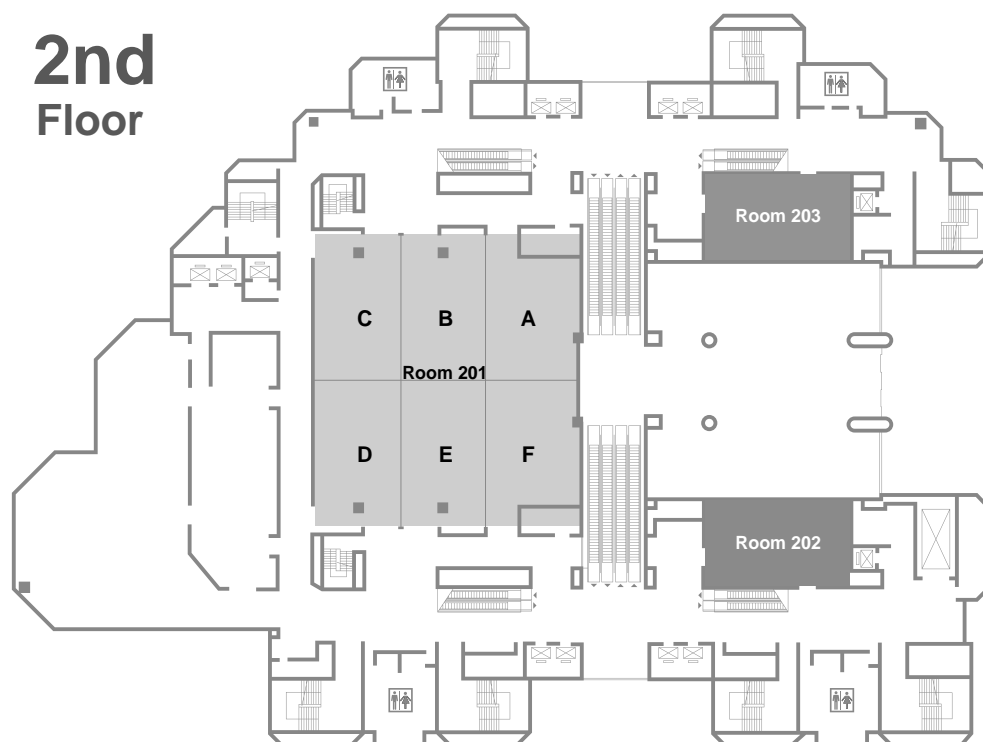
FLOOR PLAN



- **Room 101** Exhibition
- **Room 102** Plenary Session / Technical Session
- **Room 103** Technical Session

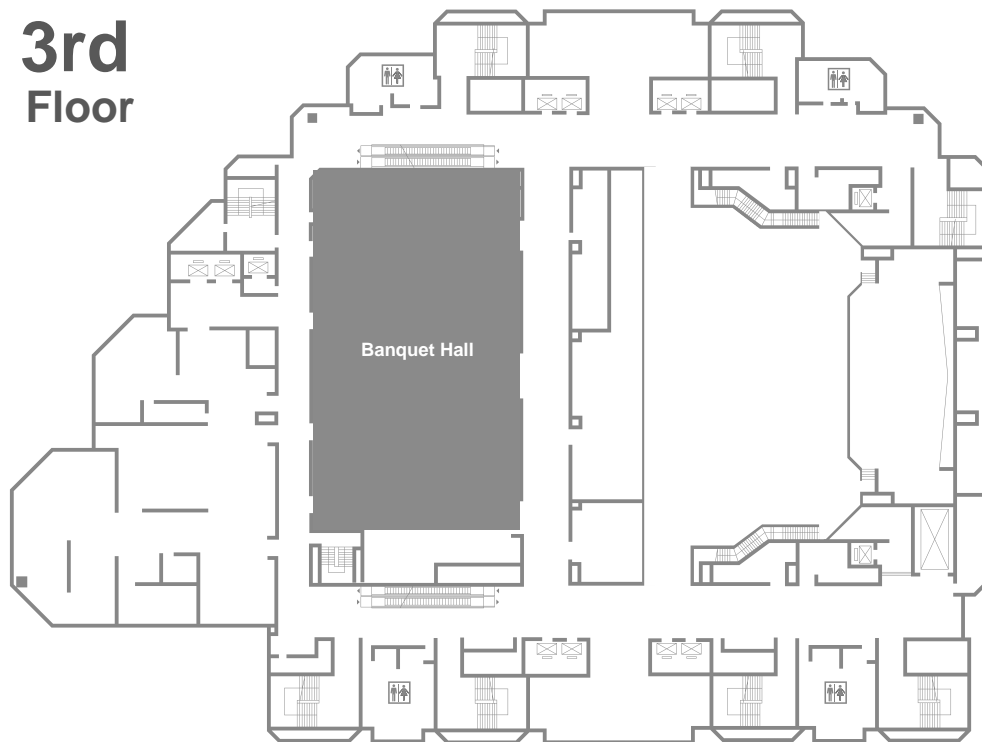
☆ Poster Session

2nd Floor



- **Room 201** Opening Ceremony & Keynote Speech(BCDE)/ Technical Sessions
- **Room 202** Secretariat Room
- **Room 203** Preview Room/ Internet Room

3rd Floor



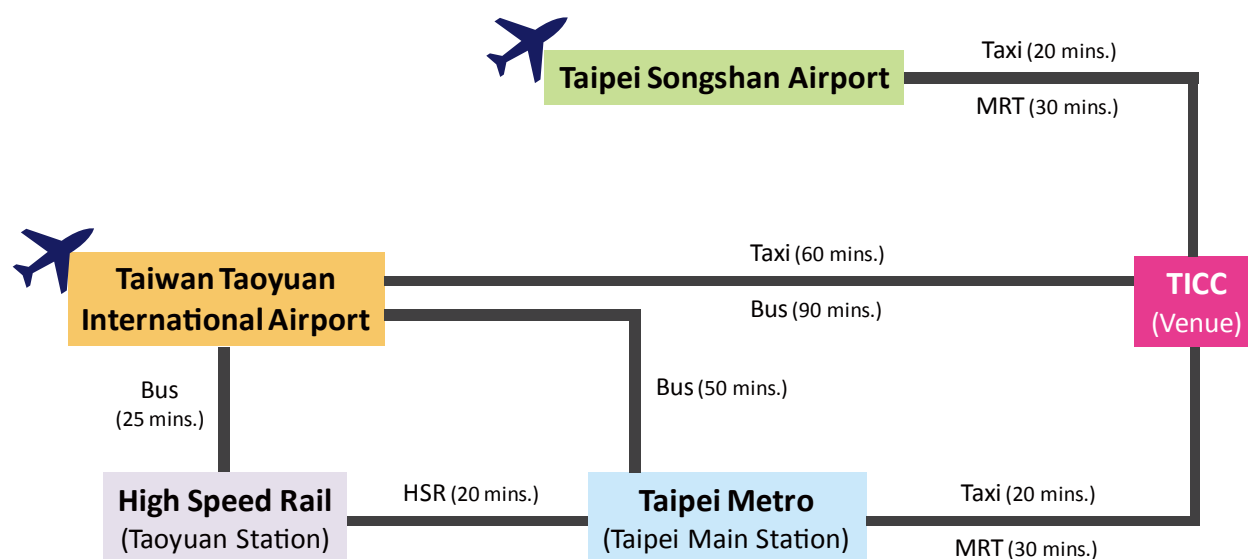
- **Banquet Hall** Banquet / Lunch / Closing Ceremony

TRAVEL INFORMATION

AIRPORT INFORMATION

- Taiwan Taoyuan International Airport: <http://www.taoyuan-airport.com/english/Index/>
- Taipei Songshan Airport: <http://www.tsa.gov.tw/tsa/en/home.aspx>

TRANSPORTATION FROM AIRPORT



VISA APPLICATION

Visa application procedure may vary in each country. Please consult with local authorities at an earliest convenience. If an invitation letter is required to obtain an entry visa to Taiwan, please contact:

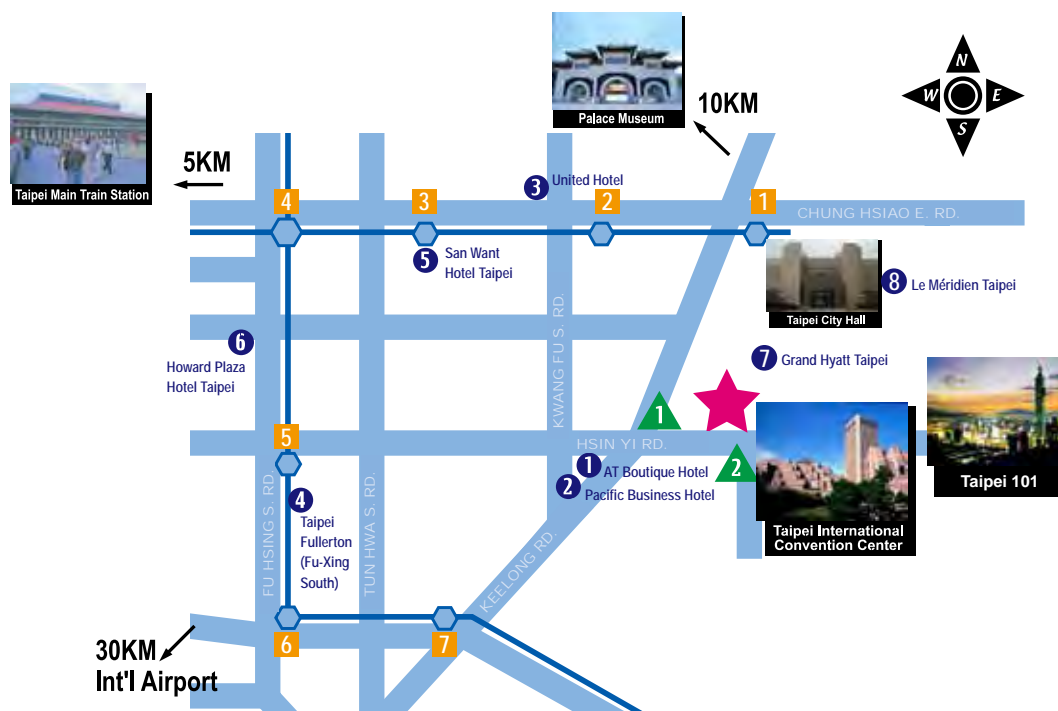
c/o Elite Professional Conference Organizer Email: setc2013@elitepc.com.tw

Tel: +886-2-8502-7087

Fax: +886-2-8502-7025

The SETC website for details of VISA application support: <http://www.setc2013.tw/VISAToTaiwan.html>.

HOTEL MAP



★ Venue- TICC

MRT

- 1 Taipei City Hall
- 2 Sun Yat-Sen Memorial Hall
- 3 Zhongxiao Dunhua
- 4 Zhongxiao Fuxing
- 5 Daan
- 6 Technology Building
- 7 Liuzhangli

BUS STOP

- 1 Bus Line : 20,285,282,284,611,625
- 2 Bus Line : 22,33,37,226,266,288

HOTEL

- 1 AT Boutique Hotel
- 2 Pacific Business Hotel
- 3 United Hotel
- 4 Taipei Fullerton (Fu-Xing South)
- 5 San Want Hotel Taipei
- 6 Howard Plaza Hotel Taipei
- 7 Grand Hyatt Taipei
- 8 Le Méridien Taipei

CONFERENCE REGISTRATION

On-line registration is scheduled to begin at the beginning of June 2013 on the SETC website where technical visits participation and banquet coupon will be available to purchase.

IMPORTANT DATES

- Early Bird Registration Deadline August 30, 2013
- Online Registration Deadline September 13, 2013

REGISTRATION FEE

Category		Online Registration		Onsite
		Early-bird (Before Aug. 30, 2013)	Regular (Aug. 31 - Sep. 13, 2013)	
Presenting Author	Other than Student	NT\$15,000	-	-
	Student SAE/JSAE/SAE-TPE Member	NT\$1,500	-	-
	Student Non- Member	NT\$2,000	-	-
Participant	Session Chair (incl. committee members, organizers)	NT\$15,000	NT\$15,000	NT\$15,000
	SAE/JSAE/SAE-TPE Member	NT\$18,000	NT\$22,000	NT\$22,000
	Non- Member	NT\$22,000	NT\$26,000	NT\$26,000
Student	SAE/JSAE/SAE-TPE Member	NT\$1,500	NT\$1,500	NT\$1,500
	Non- Member	NT\$2,000	NT\$2,000	NT\$2,000
Accompanying Person		NT\$2,000	NT\$2,500	NT\$2,500

[Important Notice to Presenting Author]

All presenting authors are requested to finish registration by August 30, 2013 as an early-bird. Any delay must be informed to SETC2013 Local Secretariat with the reason before the day. Unless such delay is justifiable and given in due course to the secretariat, his/her technical paper and the co-author(s) information may be deleted in the final program and proceedings.

c/o Elite Professional Conference Organizer Email: setc2013@elitepc.com.tw

Tel: +886-2-8502-7087

Fax: +886-2-8502-7025

ENTITLEMENTS

- **Presenting Author/Participant/Student**
 - ◎ Admission to technical sessions, plenary session, exhibition and poster session
 - ◎ Admission to all social programs (Welcome Reception/Opening, Awards & Closing Ceremony)
 - ◎ Conference Bag (Conference Bag, Badge, Program Book & Proceedings in USB)
 - ◎ Lunch & Coffee Break
- **Accompanying Person**
 - ◎ Admission to exhibition and poster session
 - ◎ Admission to all social programs (Welcome Reception/Opening, Awards & Closing Ceremony)
 - ◎ Lunch & Coffee Break