

JSAE Eye

the newsletter of the Society of Automotive Engineers of Japan, Inc.



Report

Supporting Quake Restoration – Special Kids Engineer in Tohoku September to November 2011

⇒ <http://www.jsae.or.jp/kidseng/>



The JSAE held special Kids Engineer events in three cities in the Tohoku district of North-Eastern Japan from September to November 2011. These events were designed to assist reconstruction by providing opportunities to study manufacturing technology to elementary school pupils affected by the earthquake and tsunami in March 2011. The events were held with the cooperation of the companies that supported Kids Engineer in the summer of 2011, the Tohoku branch of the JSAE, and local universities.

Administration organization	Kids Engineer 2011 Executive Committee (chairman: Yoshihiko Masuda, Toyota Motor Corporation)
Admission fee	Free

No. 1 - Kids Engineer in Hachinohe

10:30-16:30, Saturday, September 24, 2011 Venue: Media Center and Newspaper Room, Hachinohe Institute of Technology

Organizer	Society of Automotive Engineers of Japan, Inc., Kuji-city community center
Cooperation	JSAE Tohoku branch, Hachinohe Institute of Technology
Participants	44 pupils (from 7 elementary schools in Kuji City)



Finding out that different fan shapes change the power of the wind (Calsonic Kansei)



First computer class - 3D coloring (SolidWorks Japan)



Hand made motor (Toyota)



Learning about the various sensors of organisms (Horiba)



Mini fan slider (Honda)

HEADLINES



Special Kids Engineer in Tohoku



FAST-zero '11



SETC2011



MotorRing No.33

Kids Engineer in Tohoku

No. 2 - Kids Engineer in Ishinomaki

9:30-15:30, Wednesday, October 26, 2011 Venue: Ishinomaki Kaihoku Elementary School

Organizer	Society of Automotive Engineers of Japan, Inc.
Cooperation	JSAE Tohoku branch, Ishinomaki Senshu University
Participants	87 pupils (from 2 elementary schools in Ishinomaki City)



What's a planetary gear? - Study the transmission system of automobiles (Jatco)



Hand made motor (Toyota)



Create electricity and get a model car to run! (Nissan)



Study with solar-powered model cars (Mitsubishi)



Fan-powered car in a wind tunnel (Yamaha)



Kaihoku Elementary School

No.3 - Kids Engineer at Ishinomaki Senshu University

9:30-15:30, Monday, November 21, 2011 Venue: Nigoukan, Ishinomaki Senshu University

Organizer	Society of Automotive Engineers of Japan, Inc.
Cooperation	JSAE Tohoku branch, Ishinomaki Senshu University
Participants	152 pupils (from 3 elementary schools in Tome City)



Driving a fan-powered car with knowledge and ingenuity! (Aisin)



Finding out that different fan shapes change the power of the wind (Calsonic Kansei)



Hand made motor (Toyota)



Mini fan slider (Honda)



Fan-powered car in a wind tunnel (Yamaha)

Video images of these special Kids Engineer events are available on our Press Release page.

⇒ <http://www.jsae.or.jp/PR/>

Report

FAST-zero '11

First International Symposium on Future Active Safety Technology toward zero-traffic-accident September 5 to 9, 2011 Shibaura Institute of Technology (Tokyo, Japan)

228 participants (including 48 from outside Japan)



Recently, in the academic and technical field of active safety, many researchers and engineers inside and outside Japan have achieved significant results toward the reduction of traffic accidents. In Japan, the leading country in this technical field, the first international technological symposium was held for researchers and engineers.

99 papers were presented in 25 sessions at the Congress, 31 of which by participants from outside Japan.

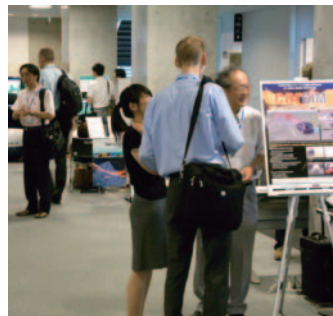
The JSAE also held special events, such as technical exhibitions by 7 companies, 3 organizations and 3 universities, technical visits, as well as the following 3 opening sessions.

Opening Sessions

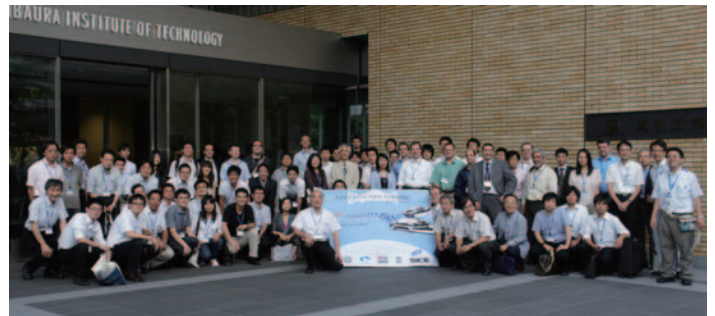
- Towards a Future where Vehicles will not Crash (Dr. Erik Coelingh / Volvo Cars, Sweden)
- Current Active Safety Developments in the U.S (Prof. Steven Shladover / University of California, Berkeley, USA)
- Future Vehicle Safety Measures - Advanced Safety Vehicle Project - (Mr. Ryosuke Itazaki / Ministry of Land, Infrastructure, Transport and Tourism, Japan)



Opening Session



Technical Exhibition



Group Photo of Steering Committee

Report

SETC 2011

17th Small Engine Technology Conference November 8 to 10, 2011 Sapporo Convention Center (Hokkaido, Japan)

327 participants (including 105 from outside Japan)



⇒ <http://www.setc-jsae.com/>

The 17th SETC was held in Sapporo, Japan. This international conference in the technical field of small engines and their related products has been co-hosted by JSAE and SAE from 1989.

The theme of the conference was the Diversity of Small Powertrain Technologies and was attended by many researchers and engineers from 18 countries. 98 papers were presented, 44 of which by participants from outside Japan.

The JSAE also held special events, such as technical exhibitions by 19 companies, plenary sessions, technical visits, as well as the following two keynote addresses.

Keynote Addresses

- Conformity or diversity - the future of powertrain technologies (Mr. Wolfgang Wukisiewitsch / BRP-Powertrain)
- The present status and the future of new motorcycle powertrain (Mr. Ichizo Aoyama / Suzuki Motor Corporation)

Plenary Session

- Combustion and Electrification -Competition and Collaboration- (Mr. Pierre Duret / IFP School, Prof. Koji Yamane / The University of Shiga Prefecture, Mr. Kazuki Takahashi / Yamaha Motor Co., Ltd., Mr. Shinsuke Ito / Ministry of Economy, Trade and Industry *From left in the center photo)



Keynote Address



Plenary Session



Award Ceremony of Presentation Award at Closing Ceremony

The papers presented at FAST-zero'11 and SETC2011 have been included on CD-ROMs.

⇒ <http://tech.jsae.or.jp/hanbai/index.aspx#CONF>

Information

MotorRing No.33

The 33rd issue of MotorRing, a magazine produced by college students, has been issued. The special topic of this issue is electric and fuel cell vehicles. It contains articles on the special topic, reports of students' projects, and the like.

⇒ <http://www.jsae.or.jp/motorring/>

※Free of charge (Japanese only)



Review of 9th Student Formula SAE Competition of Japan

The JSAE issued its review of the 9th Student Formula SAE Competition of Japan, which was held in September 2011. The review is filled with original material, such as reports of the participating teams. A well worth watching digest video of the competition is also available.

⇒ <http://www.jsae.or.jp/formula/jp/>

※Free of charge (Japanese only)



Leading engineers of automotive technologies

The JSAE interviewed engineers who have contributed to the development of automotive technologies in Japan and wrote up the contents as online articles.

⇒ <http://www.jsae.or.jp/interview/>

※Free of charge (Japanese only)



Articles

■ Between technology and engineering (Mr. Shigeru Nakagiri / released in Dec. 2011)

■ The attraction of research into engines and advice for young engineers (Mr. Takeyuki Kamimoto / released in Dec. 2011)

Report

2011 JSAE Annual Autumn Congress

October 12 to 14, 2011 Sapporo Convention Center, Hokkaido

The 2011 Autumn Congress was held in cooperation with the Hokkaido Office of the JSAE. The congress was attended by 1,190 participants and 305 papers were presented in 68 sessions. In addition to the technical presentations, technical reviews, an open lecture for the public, a poster session for industry and academia, an evening reception for engineers, and a display of vehicles raced in the Student Formula SAE Competition of Japan were held during the congress.

Technical Review

■ Demonstration experiment of smart grid for PHVs at Rokkasho Village (Mr. Yoshikazu Tanaka / Toyota Motor Corporation)

■ Development of CAMUI hybrid rocket (Mr. Harunori Nagata / Hokkaido University)

The 22nd Internal Combustion Engine Symposium

November 29 to December 1, 2011 Tokyo Tech Front

With the greater sophistication, complexity, and integration of engine systems, the passing on of technologies and fostering a new generation of engineers has become an important issue. The theme of the symposium was the advancement of engine technologies and its tradition. The symposium was attended by 428 participants and 98 papers were presented.

Keynote Addresses

■ Ignition of engine systems - from flame ignition to laser ignition - (Prof. Eiichi Murase / Kyushu University)

■ The development and evolution of the common rail system (Mr. Masahiko Miyaki / Denso Corporation)

Upcoming (Up-to-date information is available on the JSAE website)

Symposium

⇒ <http://www.jsae.or.jp/sympo/2011/scdl.php>

- 1/12 The latest elemental technology to evolve vehicle dynamics (No.08-11)
Venue: Tokyo
- 1/17 Measurements and diagnostics for the current diversified needs (No.09-11)
Venue: Tokyo
- 1/25 Development trends of various hybrid and electric vehicles (No.10-11)
Venue: Tokyo
- 1/26 The forefront of technologies for improving fuel efficiency and reducing CO₂ (No.11-11)
Venue: Tokyo
- 2/2 Advancement of CAE for car body development (No.12-11)
Venue: Tokyo
- 2/17 The latest technologies and trends in the future of hybrid and electric vehicles (No.13-11)
Venue: Tokyo
- 2/21 The environmental impact of motor vehicle emissions (No.14-11)
Venue: Tokyo

- 2/24 Newly developed engines (No.15-11)
Venue: Tokyo
- 2/29 Collision characteristics, durability performance, and robust design of auto body (No.16-11)
Venue: Tokyo

Intermediate Courses

- 1/20 Intermediate course for automotive technologies #7
An overview and latest information of international laws in technological fields
<http://www.jsae.or.jp/calendar/#1816>
Venue: Tokyo



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