

Dec.12(Thurs)

Room A (Cosmos)

Room B ("Lan"(Orchid))

Room C (Conference room1・2)

Room D (Conference Room 5-6)

\*Presented in English

9:20

**Keynote Speech II 【Room E ("Himawari"(Sunflower))】**

Moderator : Prof. Yasuo Moriyoshi (Chiba University)

Mr. Eiji Nakai (Mazda Motor Corporation)

「Future prospects of the Skyactiv-X engine and internal combustion engines」 \*This title is unauthorized translation from Japanese

10:20

Coffee Break (10:20-10:30)

10:30

10:55

11:20

11:45

12:10

Lunch Break (12:10-13:10)

13:10

13:35

14:00

14:25

14:50

15:05

15:30

16:00

No.	<b>2 Stroke Engine</b> Chairperson: Koichi Hatamura (Hiroshima Univ.)	No.	<b>Ignition 2</b> Chairperson: Kimitoshi Tanoue (Oita Univ.)	No.	<b>Diesel Spray 3</b> Chairperson: Tetsuya Oda (Tottori Univ.)
73	Relation Analysis between Knock intensity and frequency in a Small Two-stroke SI Engine Kuniyoshi Eto (Yamabiko Corporation)	83	Spark Discharge Behavior in Lean Gasoline-Air Mixture under High Temperature, High Pressure and High Flow-Speed Conditions Naoto Takehara (The Univ. of Tokyo)	93	Effect of injection amount on droplet breakup in diesel fuel sprays Kojiro Oki (Nagasaki Univ.)
74	Measurement of air to fuel ratio of a 2-stroke engine in transient bench test Yuuki Akimoto (Gunma Univ.)	84	Visualization and radical emissions measurement of the process from spark ignition to initial flame kernel formation Akira Okumo (Okayama Univ.)	94	Evaluation of breakup and dispersion of droplets in diesel sprays by L2F Kosuke Yoshikawa (Nagasaki Univ.)
75	Investigation of the effect of injection ratio on marine 2-stroke diesel engine Ryousuke Ishibashi (Mitsui E&S Machinery Co., Ltd.)	85	Study of the compression auto-ignition control method using flame kernel Ryohei Ono (Mazda Motor Corporation)	95	Observation of OME spray under turbo charged engine-like ambient condition Rio Wakabayashi (Ibaraki Univ.)
76	Study on application of opposed piston two-stroke diesel engine to small aircraft Hisao Haga (Honda R&D Co., Ltd.)	86	Ignition characteristics of lean mixture by DBD under elevated pressure Takahiro Inoue (Mitsubishi Electric Corporation)	96	A Study on Fuel Spray Features in Diesel Engine—Effects of Ambient Temperature on Diesel Spray Features— Yu Inoue (Doshisha Univ.)

No.	<b>Opposed Piston Engine 1</b> Chairperson: Akira Iijima (Nihon Univ.)	No.	<b>CI 3</b> Chairperson: Noboru Uchida (New A.C.E Institute Co., Ltd.)	No.	<b>Ignition 3</b> Chairperson: Junji Shinjo (Shimane Univ.)
77	Performance Results of the Achates Power Light-Duty and Heavy-Duty Opposed Piston Engines Redon Febien (Achates Power)	87	Study on Fuel Efficiency Improvement of Ultra-Small Diesel Engine for Low Fuel Consumption Competition Motoya Kurahara (National Institute of Technology, Kurume College)	97	Observation of knocking intensity mitigation effect by dielectric barrier discharge Eiichi Takahashi (National Institute of Advanced Industrial Science and
78	Development of a Gasoline Compression Ignition Combustion Approach using a Two-Stroke, Opposed Piston Single Cylinder Engine Douglas E. Longman (Argonne National Laboratory)	88	Study of Engine Speed Effects Based on the Similarity Law of Diesel Combustion Yuma Tanaka (Hokkaido Univ.)	98	Effect of dilution on the laminar burning velocity of hydrocarbon fuels Kazuki Okuhigashi (Osaka Prefecture Univ.)
79	Performance Simulation of a 2-stroke Opposed Piston Gasoline Engine for Series Hybrid Koichi Hatamura (Hatamura Engine Research Office)	89	Study of contamination mechanism of lubricating oil by soot generated by diesel combustion Shuntarou Takai (Hokkaido Univ.)	99	An Experimental Study on Influence of Hydrogen addition on Ignition and Meso-scale Flames of Propane Mixtures in Isotropic and Homogeneous Turbulence Takamasa Kihara (Ehime Univ.)
80	Cancelled	90	Combustion Characteristics by Combustion Chamber of Distribution Injection with Air Mixture fuel Kaito Sasayama (Kurume Institute of Technology)	100	Effects of Fuel Additive to SI Combustion Akira Miyoshi (Hiroshima Univ.)

No.	<b>Opposed Piston Engine 2</b> Chairperson: Akemi Ito (Tokyo City Univ.)	No.	<b>After Treatment</b> Chairperson: Takayuki Adachi (UD Trucks)	No.	<b>Gas Engine 2</b> Chairperson: Chihiro Kondo (Okayama Univ. of Science)
81	Achieving Ultra Low NOx Emissions for an Opposed Piston Engine Platform Bryan Abel Zavala (Southwest Research Institute)	91	Study for Effects of Fuels and After-Treatment Systems on Formation of Particles from Diesel Engine Hiroki Iwai (Teikyo Univ.)	101	A Fundamental Study of Prechamber Combustion Characteristics and Ignition in a Rapid Compression and Expansion Machine Naoto Maeda (Oita Univ.)
82	Opposed Piston Engine Oil Consumption and Durability Salvi Ashwin (Achates Power)	92	Diesel engine exhaust gas treatment technology by NOx recirculation method Souta Hirano (Osaka Prefecture Univ.)	102	Development of Adjustment System for Methane Number with LPG Reforming Technology and Evaluation of Gas Engine Characteristic Hiroaki Heima (Daihatsu Diesel NFG. Co., Ltd.)

**Closing Ceremony 【Room A(Cosmos)】**