

Program

November 24th (Tuesday)

Opening Address

Fujiwara Hall in Kyo-Sei-Kan(Collaboration Complex)

9:30-9:40

Haruki Sato, Chair of IWEE2009, (Keio University, Japan)

Chair: Hiroshi Onoda (Waseda University, Japan)

Keynote Lecture

Fujiwara Hall in Kyo-Sei-Kan(Collaboration Complex)

9:40-10:30

K-1 Environmental Railway Noise and Vibration

Dr. Pierre-Etienne Gautier

(Directeur Scientifique et Technique SNCF,

Direction de l'Innovation et de la Recherche, France)

Chair: Yasushi Takano, (Hitachi Ltd, Japan)



10:35-11:25

K-2 Leadership and Governance for Livable Cities

Prof. Seetharam Kallidaikurichi E.

(Visiting Professor and Director, Institute of Water Policy

Lee Kuan Yew School of Public Policy

National University of Singapore, Singapore)

Chair: Hiroshi Nagaoka (Tokyo City University, Japan)



11:30-12:20

K-3 Green-Energy Technologies and Energy-Policy Strategy in Japan

Prof. Takao Kashiwagi

(Professor, Tokyo Institute of Technology

Leader, Advanced Energy Systems for Sustainability

(AES) Project, Japan)

Chair: Atsushi Akisawa

(Tokyo University of Agriculture and Technology, Japan)



Oral Presentation 1

Fujiwara Hall in Kyo-Sei-Kan(Collaboration Complex)

14:00-15:20

Chair: Takeshi Kawashima (Kanagawa Institute of Technology, Japan)

O-1 Development of Noise Reduction Techniques for Shinkansen High-Speed Trains

Takeshi KURITA, Yuusuke WAKABAYASHI, Haruo YAMADA and Masahiko HORIUCHI

O-2 Acoustic Potential of Coco-Dust: a Sound Absorption Investigation

I Made MIASA (Gadjah Mada University, Indonesia), and Teguh Pudji PURWANTO

O-3 Development of O&M Diagnosis System for Safer and more Efficient Operation of Waste Disposal Facilities

Motoshi MURAOKA, Takuya KIRIKAWA, and Katsuya NAGATA

O-4 Conversion of Municipal Solid Waste into Fuel by Hydrothermal Treatment and Co-firing with Coal

Marisamy MUTHURAMAN, Tomoaki NAMIOKA, and Kunio YOSHIKAWA

Oral Presentation 2

Fujiwara Hall in Kyo-Sei-Kan(Collaboration Complex)

15:40-17:00

Chair: Atsumasa Yoshida (Osaka Prefecture University, Japan)

O-5 Development of Plasma-Assisted Aftertreatment System for Super Clean Diesel Engine (Recent Status Report)

Masaaki OKUBO, Keiichiro YOSHIDA, Takuya KUWAHARA, Shinpei KAWASAKI and Tomoyuki KUROKI

O-6 Affordable Instrumentation of Interferometric Aerosol Absorption Measurement

Jeonghoon LEE (Seoul National University, South Korea)

O-7 System Evaluation of Totalized Hydrogen Energy Utilization System for Commercial Buildings

Masao MASUDA, Yoshiaki KAWAKAMI, Atsushi TAKAHASHI, Tetsuhiko MAEDA, Akihiro NAKANO, and Manabu TANGE

O-8 Marine Current Potential Energy in Indonesian Waters

Totok SUPRIJO (Institute of Technology, Bandung, Indonesia), Safwan HADI, and Genia Atma NAGARA (Stavanger University, Norway)

Poster Presentation

Rai-O-Sha

12:30-20:00

Standing-up Get-together

Rai-O-Sha

18:00-20:00

November 25th (Wednesday)

Tour of Kawasaki Thermal Power Station

8:30-13:00

Symbiosis Symposium (in Japanese)

Rai-O-Sha

9:30-11:30

Chair: Haruki Sato (Keio University, Japan)

S1 Center for Education and Research of Symbiotic, Safe and Secure System Design

Takashi Maeno

S2 Risk Management Against Major Earthquakes

Masayuki Kohiyama

S3 Sustainable Architectures

Tatsuya Kishimoto and Tatsuro Shibuya

Poster Presentation

Rai-O-Sha

12:30-17:00 (15:00-17:00 Poster Session)

Short Oral Presentation for Posters

Rai-O-Sha

13:30-15:00

Room A

Co-Chair: Masaharu Nishimura (Tottori University, Japan)

Yoshiyuki Maruta (Ebara Corporation, Japan)

1A1 Acoustic Characteristics of a Side Branch Silencer with the Finite Impedance at the End

Masanori TSUJI and Kunihiro ISHIIHARA

1A2 Relationship between Aeolian Tone and Wake Vortex from Inclined Flat Blade (Characteristics of Vortex Shedding in Spanwise Direction)

Sho YOSHITAKE, Hidechito HAYASHI, Souichi SASAKI, and Tohru FUKANO

1A3 Improvements of Silencer-Box for Quiet Ventilation Fan

Yoshiyuki MARUTA

1A4 Flow Characteristics of Plane Jet from an Asymmetrical Two-Dimensional Nozzle

Taisuke MURAYAMA, Kazuaki SHOBU, Jiro FUNAKI and Katsuya HIRATA

1A5 Measurements of Minute Unsteady Pressure on Three-Dimensional Fan

Yusuke ONISHI, Takuya FUCHI, Jiro FUNAKI, Akira TAKUSHIMA, Seiji SATO and Katsuya HIRATA

1B1 Noise Reduction of Vacuum Cleaner with the Method of Transfer Path Analysis

Kiyoshi YABATA, Shigenori SATO, Keiichi FUJIMORI, and Hideyuki HARADA

1B2 Improvement of Sound Transmission Loss of Double-Leaf Wall with Resonators or with Dynamic Dampers

Toshimitsu TANAKA, Sumito UDA and Shinichi KINOSHITA

1B3 Development of Prediction Technique for the Sound from an Automobile Engine Intake System with a Porous Duct

Toshimitsu TANAKA, Kousuke ISHIZAKI, Senji KITAHARA, Takashi TSUTIDA

1B4 Sound and Vibration on Plate in Vortex Structural Intensity

Toru YAMAZAKI, Yuta MURAKAMI and Nozomu NUMATA

1B5 Vibration Control Using an Impact Damper System - Comparison between Translating Impactor and Rotating Impactor, and Improvement of Rotating Impactor -

Takaaki NAGASHIMA, Taichi SATO, and Kihachiro TANAKA

1C1 Feasibility study on Multi-channel Wave Synthesis Method for Active Noise Control of Periodic Noise

Tatsuya YAMAGUCHI, Masaharu NISHIMURA

1C2 Active Noise Control Using Filter Map in 3-Dimensional Acoustic Field

Ikuma IKEDA, Shinya KIJIMOTO, and Koichi MATSUDA

1C3 Alleviation of Low Frequency Noise from the Soundproof House by Standing Wave Control

Toshiyuki AOKI, Masanori TANAKA, and Yutaro SUGIURA

1C4 Active Feedback Control of Acoustic Modes in a Rigid-walled Sound Field

Tatsuya MORISHITA

1C5 Basic Study on Active Acoustic Filter for Radiator Cooling Fan

Yuuya MATSUOKA, Masaharu NISHIMURA, Naoki KANAMORI, Jongsun LEE, Masahiro SAITO

1D1 Experimental Analysis of Vibro-Acoustic Behavior of Micro-Perforated Plate as Sound Absorber to Improve Sound Absorption Performance

Toshimitsu TANAKA, Tatsuhiko KUSAKARI, and Ichiro YAMAGIWA

1E1 Study on the Internet Transmission of the Comfortable Fluctuation (Heartbeat Rhythm Transmission between Baby and Parent)

Takeshi KAWASHIMA

1E2 Acoustical Environment and Sound Tourism in Forest

Matsunori NARA, and Mitsuru HORII

3A1 Gasoline Vapor Recovery Technology at the Gas Station

Yasuhiro TANIMURA, Takeshi SUGIMOTO, Kunio TOJO, Katsuhiko SEKIYA and Kazuyuki KARINO

3A2 Decomposition Characteristics of Dilute Unburned Hydrocarbons in Flue Gas

Masaya HAYASHI, Yasuaki UEKI, Ryo YOSHIIE, and Ichiro NARUSE

3A3 A Novel Decomposition Technique of PFC-14 by Alkaline Earth Oxides and Gamma-alumina Catalysts Mixtures

Daisuke HIRABAYASHI, Kenzi SUZUKI, Akihiro TAKEUCHI, Chouyuu WATANABE, and Yoshio IWASA

3A4 Study on the Fish Market Wastewater Treatment Plant in the Case of Lempasing Market, Bandar Lampung, Indonesia

Yonik Meilawati YUSTIANI, Verlyany DEWI

3A5 Field Measurement of Cooling Performance for Water Retentive Material and Numerical Prediction with Transport Properties Measurement

Atsumasa YOSHIDA, Shinichi KINOSHITA and Naoki OKUNO

3A6 Thermal Analysis around Human based on Energy Balance in Urban Space

Atsumasa YOSHIDA, Yasuhiro SHIMAZAKI, Ryota SUZUKI, and Shinichi KINOSHITA

Room B

Co-Chair: Katsuya Kawamoto (National Institute for Environmental Studies, Japan)

Atsushi Akisawa (Tokyo University of Agriculture and Technology, Japan)

Masahiro Oka (Tokyo Gas, Japan)

2A1 Removal of Chromium from the Cr(VI) solution Using Persimmon Tannin Gel

Takehiko TSURUTA, Koh-hei YAMASAKI, Takuya SHIMAZAKI, Yasushi OGUMA, and Takahisa ISHIDA

2A2 Experimental Investigation of Vorticity Formation Process in a Density Boundary Layer of Burnt Gas Flow

Yu SAIKI, Masayoshi KATAOKA, Kosaku INABA, Yojiro ISHINO, and Norio OHIWA

2A3 Analysis of Vorticity Formation Process in a Density Boundary Layer of Burnt Gas Flow by Discrete Vortex Simulation

Yu SAIKI, Kosaku INABA, Masayoshi KATAOKA, Yojiro ISHINO, and Norio OHIWA

2A4 High-Speed Expanded and Stereoscopic Imaging of Internal Multiphase Structure in a Micro PET Particle under Abrupt Heating

Toshiharu FUKAZAWA, Yu SAIKI, Yojiro ISHINO, Takashi FUKURODA and Norio OHIWA

2B1 Gasification Reactions of Woody Biomass Pellets in a Packed Bed Reactor

Hirofumi ONO, Ryo YOSHIIE, Yasuaki UEKI, Takashi TORIGOE, and Ichiro NARUSE

2B2 Rapid Pyrolysis of Woody Biomass in Entrained Flow Reactor

Keiichi OKUYAMA, Seiji KINOSHITA, Takeshi UCHIYAMA, Toshihiko IWASAKI, Yasuo SUZUKI, Takao USHIYAMA, Hiroshi ONODA

2B3 Fermentation Residue Recycling Systems for Animal Agriculture (A shochu distillerly residue recycling process as mixed feeds)

Osamu HAMAMOTO, Shunichiro NISHIOKA, Matsumi ITAYA, and Kunioki HAYASHI

2C1 Disassembly Analysis and Environmental Load Assessment of Domestic Appliances(SDA)

Takafumi NAKAJIMA, Ryota TUBOUCHI, Hiroshi ONODA, and Katuya NAGATA

2C2 Building a Traceability System for International Resource Recycling

Hao HU, Hiroshi ONODA, Kenichi NAKAJIMA, and Katsuya NAGATA

4A1 Heat Transportation at Ambient Temperature Based on Ammonia-water Absorption Heat Pump

Atsushi AKISAWA, Atsushi TAKATA, Kazumichi ARAKI, Takahiko MIYAZAKI, Yuki UEDA

4A2 Feasibility Study of Pumpless Rankine-type Cycle for Low-temperature Heat Recovery

Noboru YAMADA, Takahiro MINAMI, and Md Nor Anuar MOHAMAD

4A3 Heat and Mass Transfer of Zeolite Desiccant Wheel with Simulation and Experiment

Seiichi YAMAGUCHI, Kiyoshi SAITO, and Sunao KAWAI

4A4 Experimental Research about Solar Radiation Shielding by a Natural Vegetation Recycling Material (Reed screen)

Masashi IO, Masahiro HASEGAWA, Manami SATO, and Narumi KAMOGAWA

4A5 PVT Property Measurements for New Alternative Refrigerant HFO 1234yf

Yohei KAYUKAWA, Yuya KANO, and Kenichi FUJII

4A6 Thermodynamic Properties for Low GWP Refrigerant HFO-1234yf

Katsuyuki TANAKA, Yukihiro HIGASHI, and Ryo AKASAKA

4B1 Prediction of Energy Consumption in Residential Houses Based on Occupants' Random Activities

Hideki HASHIMOTO, Ayumi YOKOTA, and Haruki SATO

4B2 Reducing CO₂ Emission by Combining a Hospital with University Campuses

Kenji YUGETA, and Haruki SATO

4C1 Effect of Porous Silica on Removal of Tar Components due to Waste Biomass for Catalytic Reforming

Jun KOBAYASHI, Katsuya KAWAMOTO and Noriyuki KOBAYASHI

4C2 Field Report of a High Efficiency Solar Air Conditioning System with an Absorption Chiller/ Heater Operated with Solar Thermal Energy and/or Fuel Gas for Commercial Buildings

Naoki ONDA, Takeshi YOKOYAMA, Masahiro OKA, Ristu HOMMA, and Keisuke KAJIYAMA

4C3 Study on Solar Motorcycle (Extension of Mileage per Charge with Solar Cells and Regeneration Power Controller)

Toru FUJISAWA, Ryosuke TSUNODA, Yasuro HASEO

4C4 Heat and Electricity Combined Utilization System by the Practical Stirling Engine using Woody Biomass Energies

Akira HOSHI, Shinichiro WAKASHIMA, Kazuo MAEZAWA, Isao FUJIMOTO, Yasuhira KIKUOKA, and Nobutoshi TEZUKA

4C5 Basic Research on a Novel Zero-Emission Public Transportation System (Design of Charge-Boosting System for an Electric Bus System Charged at Every Bus Stop)

Yasuro HASEO and Takeshi KAWASHIMA

4D1 Numerical Simulation of Sand Transfer in Desert

Atsuhiko YUASA, Makoto YAMAMOTO, and Yasuo KAWAGUCHI

4D2 Simulation of Frost Growth on a Flat Plate in Low Temperature Environments

Koji YAMASHITA, and Hidetoshi OHKUBO

Poster Session

Rai-O-Sha

15:00-17:00