



Announcement

2023 JSAE/SAE

Powertrains, Energy and Lubricants International Meeting

Technical Challenges for
a Carbon Neutral Society by 2050

"Powertrains, Fuels and Lubricants International Meeting," the former name of this meeting, has been changed as above in Japan.

August 29 - September 1

2023 (Registration and Welcome Party on August 28)

Kyoto, JAPAN

Venue: KYOTO TERRSA

<https://2023pel.jp>



Program

Overview^{*tentative}

	Monday Aug 28	Tuesday Aug 29		Wednesday Aug 30		Thursday Aug 31		Friday Sep 1	Saturday Sep 2
AM		Opening Ceremony						Executive Panel Session	Excursion *To be confirmed
		Keynote Speech 1-4		Technical Sessions		Technical Sessions			
Lunch Time		Lunch Session 1		Lunch Session 2		Lunch Session 3			
PM	Registration	TWS1	Technical Sessions	TWS2	Technical Sessions	TWS3	Technical Sessions	Executive Panel Session	
	Welcome Party	Reception 1		Reception 2		Banquet			

Keynote Speeches

Time & Date: Morning, Tuesday, August 29

Moderator

Masayuki Yasuoka (Marelli Corporation)

Speakers

K-1 Global CN Trends(tentative)

Osamu Sadakane (New Energy and Industrial Technology Development Organization (NEDO))

K-2 Energy Diversification and Social Systems (tentative)

Kelly Senecal (Convergent Science)

K-3 FVV Fuels Study "Transformation of Mobility to the GHG-neutral Post-fossil Age"

Dietmar Goericke (FVV eV)

K-4 Leading sustainable powertrain system innovation

André Casal Kulzer (IFS, University of Stuttgart)

Executive Panel Session (EPS)

Following the keynote speeches, experts will discuss technological development toward 2050 in terms of four key elements vital to meeting societal demand for automobiles, namely electrification, internal combustion engines, fuels and lubricants, and zero-impact emissions.

Time & Date: 9:00- 16:00, Friday, September 1

Moderator

Gen Shibata (Hokkaido University)

Paul Miles (Sandia National Laboratories)

Panelists

Energy Initiatives

Future Energy Systems and Road Transportation - A Key Factor to Reach CO2 Neutrality

Michael Bargende (University of Stuttgart, Research Institute for Automotive Engineering and Vehicle Engines Stuttgart (FKFS))

Electrification

Paradigm Shift to Motor/Capacitor/Wireless

Yoichi Hori (Tokyo University of Science)

Survival of Engines

Technologies and Scenarios to achieve a rapid reduction of the Global Warming Potential (GWP) of the Transport Sector

Marc Sens (IAV GmbH)

TBD

Keiji Kawamoto (The Research association of Automotive Internal Combustion Engines (AICE))

Initiatives by Automotive Companies

TBD

George P. Hansen (General Motors Japan Limited)

Pathways to Carbon Neutrality

Koichi Nakata (Toyota Motor Corporation)

Technical Workshops (TWS)

Technical Workshops will be focused on intensively discussing specific challenges we currently face from an expert's viewpoint to deepen participants' understanding.

TWS 1 Electrification

The role of electrification and its future technologies for a carbon neutral society

Time & Date: 13:00- 16:30, Tuesday, August 29

Moderator

Keiichiro Kondo (Waseda University)

Organizers

Toshifumi Takaoka (Toyota Motor Corporation)

Takeshi Kato (Honda R&D Co., Ltd.)

Panelists

1. Advances in Vehicle Electrification Technology and Carbon Neutrality

Atsushi Teraji (Nissan Motor Co., Ltd.)

2. TBA

Tycho von Jan (Head of VTT Volkswagen Group Japan K.K.)

3. TBA

Futoshi Yamane (Isuzu Motors Limited)

4. Present Situation of and Prospects for Next-Generation Storage Batteries for EVs

Takeshi Abe (Kyoto University)

5. In-Wheel Motors for EVs to Realize a More Comfortable Cabin

Akeshi Takahashi (Hitachi, Ltd.)

TWS 2 Energy and Lubricants

Technical Showcase for Carbon Neutral Society and Mobility

Time & Date: 13:00- 16:30, Wednesday, August 30

Moderator

Peter Morgan (SwRI)

Kotaro Tanaka (Ibaraki University)

Organizers

Hideaki Sugano (ENEOS Corporation)

Panelists

1. General Remarks on Energy

Akito Ozawa (National Institute of Advanced Industrial Science and Technology)

2. Hydrogen

Kaori Takano (ENEOS Corporation)

3. Vehicle Grid Integration toward Carbon-neutral Cities and Communities

Yutaka Ota (Osaka University)

4. DAC, CCUS, and Other Low-Carbon Technologies

Theodore Caby (Qaptis)

5. General Remarks on EV Fluids

Peter Morgan (Southwest Research Institute)

TWS 3 Engine

Technology collaborations for CN and zero emissions of ICE-equipped vehicles in the world

Time & Date: 13:00- 16:30, Thursday, August 31

Moderator

Yudai Yamasaki (The University of Tokyo)

Organizers

Takao Fukuma (Toyota Motor Corporation)

Hiromi Matsuura (Honda R & D Corporation)

Panelists

1. Global PassCar Legislation and Technology Trends - are we on an efficient & affordable pathway ?

Guenther Fraidl (AVL List GmbH)

2. Future ICE technical trend with electrification

Takaaki Kitamura (Japan Automobile Research Institute (JARI))

The Research association of Automotive Internal Combustion Engines (AICE))

3. reFuels as necessary building block of a GHG-neutral mobility

Olaf Toedter (Karlsruhe Institute of Technology (KIT))

4. An Overview of DOE Light-Duty Engine Research

Isaac Wesley Ekoto (Sandia National Laboratories)

5. Non-conventional CN Fuel and ICE technology

Mitsuharu Oguma (National Institute of Advanced Industrial Science and Technology (AIST))

6. Improving ICE efficiency through connectivity and automation – the NEXTCAR program

Giorgio Rizzoni (The Ohio State University)

Registration Fees

Category	Early Bird June 12 (Mon) to July 24 (Mon)	Regular July 25 (Tue) to August 31 (Thurs)
	Including Tax (10%)	Including Tax (10%)
Presenters (General)	49,500 JPY	Presenters should be completed a conference registration and payment within the period of early bird.
Presenters (Student)	5,500 JPY	
JSAE/SAE Members	71,500 JPY	82,500 JPY
Non-members	82,500 JPY	93,500 JPY
Student *ID required	11,000 JPY	16,500 JPY

The conference information frequently will be updated.
Please visit at the website to find up-to-date information.

Contact

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