



March 17, 2023

Vehicle Regulation and International Affairs Division  
Road Transport Bureau**Welcome to the 27th International Technical Conference  
on the Enhanced Safety of Vehicles (ESV)<sup>\*1</sup> 2023****To be held in Japan for the first time in 20 years, and the 50th anniversary of ESV**

The Ministry of Land, Infrastructure, Transport and Tourism (MLIT), together with the National Highway Traffic Safety Administration (NHTSA) of the U.S. Department of Transportation, and the Ministry of Economy, Trade and Industry (METI) will hold the 27th International Technical Conference on ESV from April 3 to 6 in Yokohama (Pacifico Yokohama North).

The conference will feature presentations and discussions on safety technologies of vehicles to protect children, the elderly, and other vulnerable road users in traffic accidents, as well as advanced technologies in automated driving and artificial intelligence. Exhibits and/or demonstrations by MLIT, automobile manufacturers, research/test centers, universities, and others will also be held.

<sup>\*1</sup> The International Technical Conference on ESV is the only International Technical Conference on vehicle safety held on a global scale, usually every two years in the United States, Japan, Europe and other countries. The first conference was held in Paris, France in 1971. The 26th conference was held in Eindhoven, the Netherlands, in 2019, and the 27th conference was initially planned to be held in Yokohama, Japan, in 2021. However, due to the global spread of the new coronavirus (COVID-19), the 27th conference was postponed for two years. The last time Japan hosted was the 18th conference, held in 2003 in Nagoya.

MLIT, together with NHTSA of the U.S. Department of Transportation and METI, will hold the 27th International Technical Conference on ESV for Safety Technologies of Vehicles from April 3 to 6 in Yokohama, Japan (Pacifico Yokohama North).

The theme of the conference is "Enhanced and Equitable Vehicle Safety for All: Toward the next 50 years", and the conference will feature presentations and discussions on safety technologies of vehicles for protecting vulnerable road users such as children and the elderly in traffic accidents, and advanced technologies for automated driving and artificial intelligence.

During the conference, MLIT will exhibit panels on policies and measures for vehicle safety, a test vehicle used for the Japan New Car Assessment Program (JNCAP). There will also be exhibits by automobile manufacturers and others, an event of an experience of the latest safety technologies ("Ride and Learn"), technical tours, and a student safety technology design competition.

The conference is expected to attract a large number of participants from government, research institutes, and industries from various countries. For more information on the conference, please visit the official website of the 27th International Technical Conference on ESV.

Please contact the ESV International Technical Conference Management Office for information on coverage of the opening ceremony, exhibition, etc. and logo usage for the conference.

- **The official website of the ESV2023**  
<https://www.27esv.org/index.html>



- **The Official Logo of the ESV2023**



- **Attachment:**  
**Outline of the ESV2023**

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**Contact (Inquiries regarding coverage of the conference or use of the ESV logo)**

The 27th ESV International Conference

27esv[at]c-linkage.co.jp

(Please change [at] to @ and send)

**Conference coverage application**

[https://www.27esv.org/contents/press\\_reg.html](https://www.27esv.org/contents/press_reg.html)

## **Outline of the 27th International Technical Conference on ESV (ESV2023)**

**Dates:** Monday, April 3 - Thursday, April 6, 2023  
(Technical Tour: Thursday afternoon, April 6 – Friday, April 7)

**Venue:** Pacifico Yokohama North

**Organizers:**

- United States Department of Transportation (DOT)  
/National Highway Traffic Safety Administration (NHTSA)
- Ministry of Land, Infrastructure, Transport and Tourism (MLIT)
- Ministry of Economy, Trade and Industry (METI)

**Support:** Society of Automotive Engineers of Japan (JSAE)

**Secretariat:** Japan Automobile Research Institute (JARI)

**Opening Ceremony:** April 3, 9:30 - 11:45

- ✧ **Official Remarks**
- ✧ **ESV U.S. Government Awards**
  - Recognition for outstanding contributions/achievements to vehicle safety
  - Special Award of Appreciation; 2 nominees from Japan
  - Award for Safety Engineering Excellence; 4 nominees from Japan
- ✧ **Government Status Reports**
  - Government reports on the status of vehicle safety policies

**Exhibition Opening Ceremony:** April 3, 11:45 - 12:00

- ✧ **Ribbon cut**
  - Ann Carlson (Acting Administrator, NHTSA)
  - TAKAHASHI Masakazu (Director of the ESV2023 Local Organizing Committee, JARI)
  - NOTSU Masao (Director-General for Engineering Affairs, Road Transport Bureau, MLIT)
  - FUJIMOTO Takeshi (Deputy Director-General, Manufacturing Industries Bureau, METI)

**Panel Session:** April 3, 13:00 - 14:30

- ✧ **Plenary Panel Session (Aging Society):** April 3, 13:00-14:30  
Moderator: Ibrahima Sow (Transport Canada)  
Speaker: Anne E. Dickerson (East Carolina University)  
Pierre-Olivier Milette (European Automobile Manufacturers' Association (ACEA))  
YOSHIZAWA Takashi (Nissan)  
NOTSU Masao (MLIT)
- ✧ **Special Session 1 (Cyber security):** April 3 15:00 - 16:00  
Moderator: Cem Hatipoglu (NHTSA)  
Speaker: NIIKUNI Tetsuya (NTSEL)  
Andre Smulders (TNO)

Josh Davis (Toyota Motor North America)  
 Norma M. Krayem (Van Scoyoc Associates)

- ✧ **Special Session 2 (Safe Systems Approach):** April 3 16:30 - 17:30  
 Moderator: Tim Johnson (NHTSA)  
 Speaker: Hyoung Gu Kim (KATRI)  
 Dereece Smither (Research Psychologist)  
 Cecilia Sunneväng (Autoliv)

### **Lunch Session**

- ✧ **Theme 1 (Vehicle In-Use Safety for Advanced Safety Systems)**  
 April 4 13:00 - 13:45  
 Speaker: SUDA Yoshihiro (University of Tokyo)
- ✧ **Theme 2 (Assured Autonomy in Cyber-Physical Systems)**  
 April 5 13:00-13:45  
 Speaker: Sandeep Neema (Vanderbilt University)

### **Technical session**

Date	Track A	Track B	Track C
April 4 Tues. 8:30 - 12:30	Protection of Vulnerable Road Users	Safety Performance in Frontal and Rear Crashes	Active Safety Systems for Crash Avoidance: New Systems and Technologies
April 4 Tues. 14:00 - 18:00	Advances in Experimental and Mathematical Biomechanics and Human Injury Research	Safety Performance in Side Impact and Rollover Crashes	Driving Automation Systems: Product Evolution; Safety Performance Assessment; and Real-World Deployment Challenges
April 5 Wed 8:30 - 12:30	Advances in Crash Test Dummies, Instrumentation, and Data Analysis	One Step Ahead Integrated Vehicle Safety Technologies	Human Factors Considerations for ADAS and ADS Technologies
April 5 Wed. 14:00 - 18:00	Student Safety Technology Design Competition - Finalist Oral Presentations	Consumer-Focused Approaches to Promote Vehicle Safety in the Automotive Market	Opportunities and Challenges of Applying Artificial Intelligence (AI) and Machine Learning Techniques to Enhance Vehicle Safety
April 6 Thurs. 8:30 - 12:30	Developing and Adapting Safety Assessment - Approaches for Vehicles with ADS (SAE Levels 3, 4 and 5)	Restraint System Design and Performance Challenges: Addressing the Needs of Diverse Populations (Age, Gender, Stature)	New and Improved Field Data Collection, Analysis, and Benefits Assessment Methods

### **Exhibition**

April 3rd, 12:00~17:30; April 4th and 5th, 9:30 - 17:30; April 6th, 8:30 - 12:30

- ✧ **Exhibitors**
- Additium Technologies
- Applied Institution

- Applus IDIADA
  - Autoliv Japan Ltd.
  - Automotive Coalition for Traffic Safety, Inc. (ACTS)
  - Cellbond
  - DAIHATSU MOTOR CO., LTD.
  - Department of Transportation/NHTSA
  - Honda Motor Co., Ltd.
  - HORIBA, Ltd.
  - ISUZU MOTORS LIMITED
  - Japan Automobile Research Institute (JARI)
  - JASTI Co., LTD
  - KYOWA ELECTRONIC INSTRUMENTS CO., LTD.
  - Mazda Motor Corporation
  - Ministry of Land, Infrastructure, Transport and Tourism (MLIT)
  - Mitsubishi Heavy Industries, Ltd.
  - Mitsubishi Motors Corporation
  - National Agency for Automotive Safety and Victims' Aid (NASVA)
  - National Traffic Safety and Environment Laboratory (NTSEL)
  - Nissan Motor Co., Ltd.
  - SUBARU CORPORATION
  - Suzuki Motor Corporation
  - TOYOTA MOTOR CORPORATION
  - VBOX JAPAN Inc.
  - ZF Friedrichshafen AG
- (Alphabetical order)

**Event of an Experience of the Latest Safety Technologies (Ride and Learn):**

Toyota Motor Corporation

April 3rd, 12:00~17:30; April 4th and 5th, 9:30 - 17:30; April 6th, 8:30 - 12:30

- ✧ Parking support brake (Suppress acceleration and apply braking when sensors detect obstacles such as vehicle, wall or glass)
- ✧ Plus Support - Rapid Acceleration Suppression (Suppress acceleration when abnormal pedal operation is identified even though there is no obstacles around vehicle)

**Technical Tour/ Field Trip:**

- ✧ April 6 (Thurs.) 14:00-17:20, Denso Global R&D Tokyo, Haneda
- ✧ April 7 (Fri.) 9:00 - 16:40, TOYOTA Higashi-Fuji Technical Center
- ✧ April 7 (Fri.) 9:50 - 17:40, Nissan Intelligent Factory

**Registration, etc.**

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