

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 Sunnevang (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.

The official website of 27th International Technical Conference on the ESV

<https://www.27esv.org/index.html>