

IAEC

International Automotive Engineering Conference
Uluslararası Otomotiv Mühendisliği Konferansı

About the Conference

International Automotive Engineering Conference - IAEC is organized by OİB (Automotive Industry Exporters' Association), OSD (Automotive Manufacturers Association), OTEP (Automotive Technology Platform) and TAYSAD (Association of Automotive Parts & Components Manufacturers), in cooperation with SAE International (Society of Automotive Engineers), which will be held on November 1-2, 2018 in Istanbul.

Automotive Industry, as one of Turkey's leading industries with remarkable impact on the economy, is targeting to

- Develop engineering, R&D and innovation capability
- Foster cooperation between universities and the industry,
- Encourage the utilization of alternative resources through engineering companies at national and international level, to increase product development and innovation capability.

The educational and developmental output that run parallel to the aforementioned needs are necessary for both research and engineering teams. Based on this purpose and necessity, IAEC is planning to guide R&D and engineering output in the industry, perception management, and information-sharing.

Participants Profile *

Number of Participants: 750 - 800 (2 days total)

Number of Private Sector Companies: 100 - 120

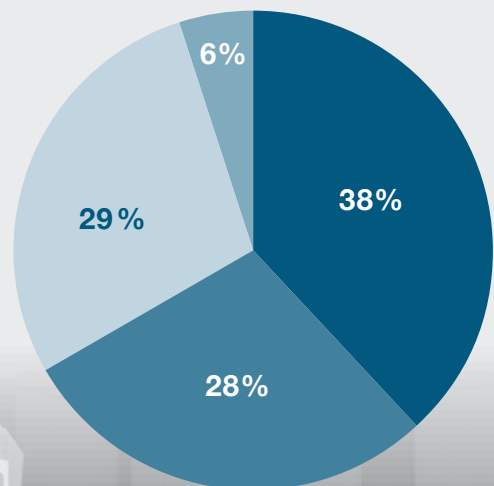
Number of Universities: 25 - 30

Number of Academicians: 100 - 120

Number of Students: 150 -175

Number of Public Institutions & NGO's: 15 - 20

- Private Sector Companies
- Universities & Academicians
- Students
- Public Institutions & NGO's



* 2016 & 2017 average values



About the Stakeholders



The Uludag Automotive Industry Exporters' Association (OIB) was formed in 1991 under the title of Uludag Vehicle and Auxiliary Industry Exporters' Association (UTAYSIB) with 246 members and exports of \$163 million under the umbrella of the Uludag Exporters' Association. As of 2017, OIB has 4.700 active memberships and it is the sole export representative of the automotive industry, the locomotive of the country's total exports. All exporting main and supplier industry companies in the automotive sector in Turkey are members of OIB, which is a union of coordination for automotive sector exporters. Continuously active for 27 consecutive years and with an exports level of 25,6 billion dollars by the end of 2017, OIB's share in the total exports of UIB is 87% and as such, it continues to be a determined leader in exports, a status it has maintained for many years. As the export champion of the last twelve years and Turkey's largest export sector, the automotive industry is in first place in commercial vehicle manufacture in Europe.





OTOMOTİV SANAYİİ DERNEĞİ
AUTOMOTIVE MANUFACTURERS ASSOCIATION

The Automotive Manufacturers Association (OSD), established in 1974, represents the automotive manufacturers operating in Turkey at domestic and international levels.

OSD is an active member of the Association of International Automobile Manufacturers (OICA).

The Mission of OSD is to:

Contribute to the development of a sustainable and internationally competitive automotive industry in Turkey,

Collect, analyze and circulate information on the automotive industry among its members and the public at large,

Study issues of mutual interest to its members and develop industry position on these matters,

Promote industry policies in the domestic and international arena with the concerned parties and the public in general.





- Celebrating its 40th anniversary this year, TAYSAD is the sole and most competent representative of the Turkish automotive supplier industry
- With 400 members, TAYSAD represents 70% of the output of the automotive supplier industry and 80% of the industry's exports
- 80% of TAYSAD's members operate in the Marmara region; 12% in the Aegean region and 8% in other regions of Turkey
- 400 TAYSAD members employ more than 160,000 people.
- 25% of TAYSAD members have foreign partners who hold varying levels of shares
- TAYSAD is a member of CLEPA, the European Association of Automotive Suppliers (www.clepa.be)
- TAYSAD has a reference position within Turkey for domestic and international OEM's, Tier 1 Suppliers and institutions being the representative of Turkish Automotive Parts and Components Suppliers
- TAYSAD holds ESCA Silver Label and ISO 9001 Certificates.

Our Vision

“3T-10-2030” To put the Turkish Automotive Supplier Industry into the top ten in the Global Automotive Market through its Design-Technology-Supply capability.

Our Mission

As the most competent non-governmental organization in its own sector, TAYSAD strives to create strategies to meet the expectations of its members and to support the sustainable growth of the Automotive Supply industry through globally competitive businesses.

To ensure that it continues to serve as a “Reference Institution” in its own sector, TAYSAD keep developing itself by working in coordination with official institutions and stake holders through the strength derived from its values.





“Automotive Technology Platform” (Otep) is founded in 2008 with support of TUBITAK incentive to unite the organizations operating in Turkey which are directly or indirectly related with automotive industry, in order to improve the R&D capability and ensure the competitiveness of Turkey’s long-term aims in this field.

Otep’s membership structure constitutes of OEM’s, Automotive Industry Suppliers, Engineering, Test and Analysis firms and Universities which allows the balanced representation of related stakeholders in the automotive sector. In this point Vision and Mission of Otep is stated as follows;

Vision:

“To maintain an internationally competitive R&D and innovation infrastructure in Turkish Automotive Industry.”

Mission:

“To form policy and foster cooperation in order to develop R&D and innovation capabilities of Turkish Automotive Industry.”

Automotive Technology Platform (Otep) continues to work in line with its Vision and Mission, in order to create added value by coordinating R&D activities at national and EU level, to stimulate innovative new investments for a strong Turkish economy.



HISTORY

IAEC'16

Main concept: **WEIGHT REDUCTION**

The first International Automotive Engineering Conference (IAEC) took place on the 3rd and 4th of November, 2016, in Istanbul.

The aim of the conference was reviewing the latest developments in the automotive industry with respect to automotive engineering, where leading international experts presented the latest thinking in the field of "Weight Reduction".

The conference addressed the issues of Automotive Engineering Education where we will hear views from the US and Turkish sides. The event also included a panel on career opportunities in automotive industry in Turkey.



The poster features a Newton's cradle with five silver spheres. The text is centered and reads:

IAEC

International Automotive Engineering Conference '16
Uluslararası Otomotiv Mühendisliği Konferansı '16
November 3-4 Kasım, İstanbul
Swissotel Conference Center

www.iaec.ist

Organizasyon / Powered by

Destekleyen / In cooperation



IAEC'16 TOPICS, SPEAKERS & PANELISTS

3rd of November 2016 (Thursday)

Opening Speech - Cüneyt L. Öge, President, SAE INTERNATIONAL

Advanced Multi-Material Lightweight Design- State of the Art and Challenges

Prof. Dr.-Ing. Thilo Bein, FRAUNHOFER LBF, Head of Knowledge Management

SESSION I

Moderator - Prof. Dr. Orhan Behiç Alankuş, OKAN UNIVERSITY, R&D Coordinator

Concept Vehicle - Design and Comparative LCA Study

Tim Skszek, MAGNA INTERNATIONAL, Senior Manager, Government Partnerships

Light Weight in Commercial Vehicles

Dr. Rupert Niethammer, MERCEDES-BENZ TÜRK, Development Truck Vehicle Systems Senior Manager

Challenges in the Preparation of Composites of Polymers and Nanoparticles for Light-weighting Applications: From Molecule to Manufacture

Prof. Tony McNally, UNIVERSITY OF WARWICK, Chair Professor in Nanocomposites

SESSION II

Moderator - Ernur Mutlu, FORD OTOSAN, R&D Consultant

Advanced High Strength Steel Grades for Automotive Industry and Challenges in Development and Production

Dr. Oğuz Gündüz, ERDEMİR, R&D Director

Lightweighting Solutions for Automotive Industry with Carbon Fiber Composites

Levent Gür, DOWAKSA, Chief Commercial Officer

Holistic Approach to Vehicle Lightweighting

Ergün Güraslan, FORD OTOSAN, Engineering Director

SESSION III

Moderator - Osman Gazi Dünder, TEMSA GLOBAL, Researchment and Development Manager

Cost Efficient Lightweight Approach in Designing "Rational" Car

Tolga Uludağ, TOFAŞ, Body Design Unit Manager

More Than a Viable Solution in Automotive Industry; Aluminum

Dr. Murat Dünder, ASSAN ALÜMİNYUM, Director of Technology

Challenge of Nano in the Macro World of Lightweight Composites: Are We There Yet?

Dr. Melih Papila, SABANCI UNIVERSITY, Academician

4th of November 2016 (Friday)

The Importance of Industry-University Interactions to Automotive Engineering Education

Dr. Emmanuel De Moor, COLORADO SCHOOL OF MINES, Advanced Steel Processing and Products Research Center, Academician

Automotive Engineering Education in Turkey

Prof. Dr. Ahmet Güney, ISTANBUL TECHNICAL UNIVERSITY, Automotive Laboratories, Academician

Panel Discussion on Automotive Engineering Education

Moderator - Batuhan Aydağül, EĞİTİM REFORMU GİRİŞİMİ, Director

Prof. Dr. Cem Soruşbay, ISTANBUL TECHNICAL UNIVERSITY, Automotive Laboratories, Academician

Dr. Tarık Öğüt, FİGES, Chairman

Dr. Recep Kurt, MARTUR, Director / R&D

Dr. İsmail Durgun, TOFAŞ, R&D and Academy Consultant

SAE Presentation - Cüneyt L. Öge, President, SAE International

Panel Discussion on Career in Auto Industry

İbrahim Eserce, TEMSA GLOBAL, R&D and After Sales Director

Betül Çorbacıoğlu, MERCEDES-BENZ TÜRK, Human Resources Senior Manager

Nursel Ölmez Ateş, FORD OTOSAN, Human Resources Director

Ayhan Tokcan, STANDARD PROFİL, Vice President Human Resources

Gül Ünal, TEKLAS, R&D Manager

HISTORY

IAEC'17

Main concept: **FUTURE OF MOBILITY**

The 2nd International Automotive Engineering Conference (IAEC) realized on 2nd and 3rd of November 2017, in Istanbul.

The aim of the conference was reviewing the latest developments in the automotive industry with respect to automotive engineering, where leading international experts presented the latest thinking in the field of “Future of Mobility”.

The conference addressed the issues of Autonomous Vehicles, Electro-mobility, Connected Vehicles, Smart Cities, Automotive Engineering Education, where views were heard from the US, Europe, and Turkish sides. The event also included two panels on Industry-University cooperation on design, and industry expectations from the engineering education in Turkey.



IAEC'17 TOPICS, SPEAKERS & PANELISTS

2nd of November 2017 (Thursday)

Opening Speech - Welcome Speech - Prof. Dr. Mustafa İlhan Gökler, METU - Conference Chair

Future of Mobility - (A Window into the Future of Automotive Mobility)

Joerg Krings, Strategy& Management Consultants, Partner - Germany

Mobility

Murat Dođru, SAE, Director of SAE European Operations - Belgium

PANEL "FUTURE OF CONNECTIVITY"

Vehicle Connectivity in Intelligent Transport Systems: Today and Future

Prof. Dr. Ece Schmidt, METU

Driving the Autonomous Revolution

Dieter Gabriel, Velodyne Lidar, Marketing Manager, EMEA - Germany - 3D LiDAR Sensors

Q&A - Ernur Mutlu - Panel Chairman

Future Road Transport (Sustainable Road Transport - Options for Decarbonization and Digitalization in a System Approach

Dr. Stephan Neugebauer, ERTRAC, Chairman - Germany

PANEL "FUTURE MOBILITY PUBLICS & GOODS OF TRANSPORTATION IN SMART CITIES"

Muhammed Aliyürük, ISBAK, CEO - Turkey

The Road to Automated Driving - Chances and Challenges

Tülin Baysal, Bosch, Chassis System Control - Systems Engineering Automated Driving - Germany

The future Intelligent Truck: Safe, Autonomous, Connected

Mustafa Üstertuna, Mercedes Benz Turkey, R&D Director - Turkey

Mustafa Gürçan, Temsa, R&D Manager - Turkey

Q & A - Prof. Dr. Fikri Karaesmen - Panel chairman

Fuel Cells - (Hydrogen and Fuel Cells for Transportation: Status, Progress, and the Path Forward)

Dr. Elvin Yüzügüllü CSRA/George Washington University, Project Manager/Adjunct Professor - USA

Future of Mobility and its Effects on Automotive Ecosystem

Özkan Yıldırım, Deloitte, Partner - Turkey

3rd of November 2017 (Friday)

Opening Speech - Welcome Speech - Prof. Dr. Mustafa İ. Gökler, METU - Conference Chair

Connected and Autonomous Vehicles - (Autonomous Vehicles Testing)

Associate Professor Zsolt Szalay, Budapest University of Technology and Economics - Hungary

PANEL "AUTONOMOUS VEHICLES"

Dr. Cem Saraydar, General Motors, Director of Electrical & Controls Systems Research Lab in Warren, MI - USA

Associate Professor Taşkın Padır, Northeastern University - USA

Q&A - Prof. Dr. Günay Anlaş - Bogazici University - Panel Chairman

PANEL "FUTURE OF ELECTROMOBILITY"

Long Range E-Mobility: Challenges & Solutions

Dr. Klaus Kuepper, AVL, Executive Chief Engineer - Austria

Prof. Dr. Murat Pekşen, Multiphysics Energy Solutions (MES) - Germany

Dr. Thomas Hülshorst, FEV, Global Vice President Electronics & Electrification - Germany

The Journey of Hybridization and Electric Vehicles In Automotive Industry

Bertan Birtürk, Oyak Renault, Head of Electrical Systems&Electrotechnical Components Design&Development - Turkey

Q&A - Prof. Dr. Nejat Tuncay - Okan University - Panel Chairman

SURVEY RESULT "WOMEN PRESENCE IN TURKEY AUTOMOTIVE BUSINESS"

Özkan Yıldırım, Deloitte, Partner - Turkey

Nursel Ölmez Ateş, Ford Otosan, Human Resources Director - Turkey

Betül Çorbaciođlu, Mercedes-Benz Türkiye, Human Resources Senior Manager - Turkey

Fidan Sevilmiş, Koç Fiat Kredi Finansman, General Manager - Turkey

Vehicle Design in Mobility Era

Prof. Dale Harrow, Royal College of Art, Head of Automotive Design - UK

PANEL "INDUSTRY UNIVERSITY COOPERATION ON VEHICLE DESIGN"

Ömer Rüştü Ergen, Ford Otosan, R&D and IPR Manager - Turkey

University-Industry Cooperation for Technological / Scientific Interaction

Dr. Ali Erkin Kutlu, Standart Profil, Group R&D Director - Turkey

Prof. Dr. Murat Ereke, ITU - Turkey

Q&A - Prof. Dr. Orhan Alankuş Okan University - Panel Chairman

PANEL "AUTOMOTIVE INDUSTRY EXPECTATIONS FROM THE ENGINEERING EDUCATION"

Osman Sever, OSD, General Secretary - Turkey

Tolga Dođanciođlu, TAYSAD, Board Member - Turkey

Q&A - Prof. Dr. Metin Ergeneman, ITU, Panel Chairman

IAEC

International Automotive Engineering Conference '18
Uluslararası Otomotiv Mühendisliği Konferansı

November 1-2, 2018
Swissotel The Bosphorus
Istanbul, Turkey

www.iaec.ist



IAEC'18

Main concept: **THE PRESENT AND FUTURE OF AUTOMOTIVE ELECTRONICS AND SOFTWARE**

The 3rd International Automotive Engineering Conference (IAEC) will take place on 1st and 2nd of November 2018, in Istanbul.

The conference aims at reviewing the latest developments in automotive industry with respect to automotive engineering and leading international experts will present latest thinking in the field of “The Present and Future of Automotive Electronics and Software”.

The conference will address the issues of “Considerations on Future of Automotive Electronics & Software”, “Automotive Software Security & Blockchain”, “Regulations and Testing for Intelligent Vehicles”, “Adaptive Platform for Intelligent Vehicles”, “Impact of Emerging Technologies on Automotive Ecosystem”, “5G and Future for Automotive Connectivity”, “Future of Electronics on Vehicles”, “Artificial Intelligent on Vehicles”, “Technology & Ethic”, “Intrapreneurship Strategies in Automotive”, “Innovative Start-ups on New Technology Development in Automotive Sector”.

This event will also include “1st Automotive MSC and Doctorate Thesis Awards” ceremony.



IAEC'18 TOPICS

1st of November 2018 (Thursday)

Opening Speech - Welcome Speech

Keynote Speech - **Considerations on Future of Automotive Electronics & Software**

Q & A Session

Keynote Speech - **Automotive Software Security and Blockchain**

Q & A Session

PANEL - "REGULATIONS AND TESTING FOR INTELLIGENT VEHICLES"

Q & A Session

Keynote Speech - **Adaptive Platform for Intelligent Vehicles**

Q & A Session

PANEL - "IMPACT OF EMERGING TECHNOLOGIES ON AUTOMOTIVE ECOSYSTEM"

Q & A Session

Keynote Speech - **5G and Future for Automotive Connectivity**

Q & A Session

Keynote Speech - **Future of Electronics on Vehicles**

Q & A Session

2nd November 2018 (Friday)

Opening Speech - Welcome Speech

Keynote Speech - **Artificial Intelligence on Vehicles**

Q & A Session

Keynote Speech - **Education**

Q & A Session

PANEL - "FORMULA STUDENT"

Q & A Session

Keynote Speech - **Intrapreneurship Strategies in Automotive**

Q & A Session

PANEL - "IMPACT OF INNOVATIVE START-UPS ON NEW TECHNOLOGY DEVELOPMENT IN AUTOMOTIVE SECTOR"

Q & A Session

conference@iaec.ist

www.iaec.ist