FISITA

Promoting excellence in mobility engineering

FISITA Annual Report 2017–2018

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Introduction

Welcome to the first FISITA Annual Report, which focuses on key FISITA activity and a variety of projects, events and initiatives spanning across our global membership platform through 2017-18.

You will notice that this publication combines the content from the Annual Review and Regional Report, enabling us to share one focused report that is relevant to our global community. The report has been compiled with the help of FISITA's Regional Vice-Presidents who have developed a close relationship with the societies in their region.

Today, our network of Member Societies and Corporate Members extend a reach to over 210,000 engineers in 37 countries, placing us at the heart of the industry and enabling members to connect with each other, network, share technological advancements and collaborate in a pre-competitive environment. FISITA facilitates dialogue between engineers and industry, governments, academia, and environmental and standards organisations, across all areas of automotive and mobility systems technology.

Collaboration among FISITA Corporate Members, our Academic Advisory Board, Technical, Education and Industry Committees through 2017/18, has led to the development of an important White Paper, providing the combined perspective of how industry and academia will cooperate to produce the mobility engineers of 2030 - look out for this document, which will be published in the second half of 2018.

We are extremely grateful to our Member Societies - spread across five continents and spanning the world's major economies, they encompass the main automotive R&D and manufacturing centres. These engineering societies represent the interests of their members and help to disseminate and share automotive technology, both locally within their country of operation and to an international audience.

2017 was a fantastic year for FISITA, with significant progress made in all areas of the organisation. We continue to deliver on the FISITA business and development plans, and as the organisation evolves in a rapidly changing landscape, we have so many people around the world to thank who play their part in the continuing success of FISITA.

We successfully launched our one-day conference FISITA PLUS, featuring some of the world's leading mobility technologists and professionals at County Hall in London, UK. The day's technology focus at FISITA PLUS culminated with a headline speech by Andy Palmer, Vehicle Line Director at McLaren Automotive Ltd.

Our other international events continued to successfully provide exclusive and valuable platforms for the mobility systems engineering community. Two of these events leveraging our technical leadership in 2017 included the World Automotive Summit – which focused on the challenging theme, 'Clearing the air; creating a path to sustainable mobility' in Geneva, Switzerland – and EuroBrake, which returned to Dresden, Germany, once again demonstrating why it is the world's largest braking technology conference.

With the support of our Technical and Industry Committees, FISITA launched its monthly series of Technical Webinars, focusing on a variety of technical automotive and mobility topics and featured speakers from BMW, GM, McLaren Automotive, Mentor and Toyota. Attendee figures grew throughout the year and included a healthy mix of industry leaders, professionals and young engineers – our Webinars continue to evolve and have now become a firm fixture every month.

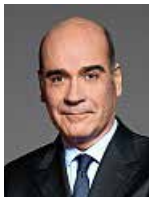
Thanks to our members and the FISITA staff team for a great 2017/18 - we hope you enjoy reading about the fantastic activities that have been taking place here at FISITA and around our regions.

Engineers create solutions, FISITA continues to support them to do so.

Dan Nicholson
FISITA President 2016 -2018

Chris Mason
Chief Executive

Europe



My role is to contribute to a friendly relationship between the European FISITA Member Societies and, in particular, to promote the organisation of technical events in our region, as well as to work together with the Internal Relations Committee and other Regional FISITA Vice Presidents to set the grounds for true international co-operation.

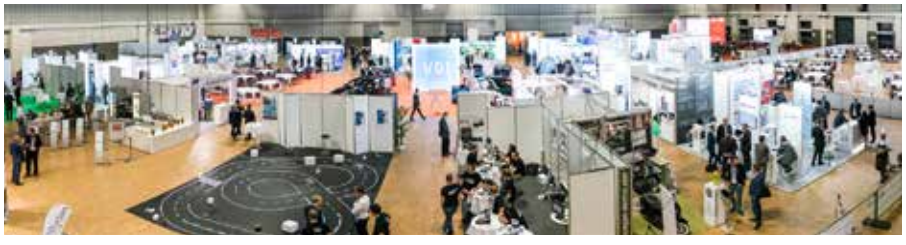
Dr.-Ing Carles Grasas, VP Europe

VDI

The ConCarExpo is organised by the VDI Wissensforum, part of FISITA's German society, the VDI Group. It is Europe's largest international trade fair on connected cars, automated driving and IT security.

In July 2017, around 1,500 visitors attended the event, featuring over 80 exhibitors and 120 speakers. The focus was on the core issue of digitalisation as the solution to fully automated and networked driving. Over the course of two days, ConCarExpo 2017 showcased the trends and active players that will be shaping the automotive sector in the future.

Every year, the VDI Wissensforum organises 1,700 congresses, conventions, technology forums, courses and seminars, covering almost every technical discipline, attracting more than 35,000 participants. ConCarExpo is one of many events that makes the VDI Group a leading education provider for engineers, technical specialists and managers.



IMechE

The Automobile Division at the Institution of Mechanical Engineers (IMechE) in the UK provided input into a number of activities throughout 2017/18. The Division has 11 regional centres, all very active in putting on free events such as lectures, technical tours, competitions, for members, non-members as well as extensive young member engagement activities that promotes engineering throughout the year. The Tyne Tees Centre with the IMechE's North East Region organised four days of Greenpower STEM activities (build, drive, class modules) with two primary schools (60 students participated) at the Port of Blyth in April; a regular activity throughout the year that creates very high student participation.

The division held several high-profile events led by IMechE HQ, enabling sharing of learning from key industry leaders and networking, including the ever-popular Formula Student and:

- **Vehicle Thermal Management Systems Conference and Exhibition**
- **Developments in Transmission and Driveline Technology Seminar**
- **Connected and Automated Vehicle Engineering 2017**
- **Bus and Coach Engineering seminar: whole life costs and reliability in a low emissions industry**
- **Vehicle Ride and Handling: Specialised engineering for an improved experience seminar**
- **Real Driving Emissions: The Impact on Engineers**

OVK

At the 39th International Vienna Symposium, which took place from 26 - 27 April 2018, the focus was on the latest developments in the drive engineering sector and their way into the future. More than 1,000 engine and drive system experts participated, including top-level managers of the automobile industry, engineers, and scientists from around the world. The Symposium was organised by the Austrian Society of Automotive Engineers (ÖVK), with support from the Institute for Powertrains and Automotive Technology of TU Wien.

LAIA

FISITA's Latvian Member Society LAIA has been focusing on obtaining and retaining student members – a meeting at a local university resulted in 8 new student members, which was very positive.

Their 22nd annual conference was a great success, held at the same time and venue with the main Car Show in Latvia. During the conference LAIA also handed out cash prizes of EUR 1,000 split between three students for their scientific, design, and research papers.

Europe

SIAR

The CAR2017 Congress took place at the University of Piteşti, Romania, in November 2017 and was organised by our Member Society SIAR and the Department Automobiles and Transport, University of Piteşti.

The CAR Congress reached its 11th edition in 2017 and is part of the SIAR's series of similar annual scientific events held successively by various universities in Romania with interests in automotive engineering.

This year's CAR Congress was very successful and focused on Mobility Engineering and Environment, covering the following areas:

- **Accident research and analysis**
- **Active and passive safety**
- **Advanced engineering methods**
- **Advanced materials, manufacturing technologies and logistics**
- **Advanced transport systems and road traffic**
- **Heavy and special vehicles**
- **Hybrid and electric vehicles**
- **Internal combustion engines**
- **Vehicle electronics and software**
- **Vehicle dynamics**

Europe Members

ANFIA

In 2017, FISITA developed its long-term association with Italian Member Society ATA via the Italian Association of the Automotive Industry (ANFIA), who took responsibility for its member activities. This included Formula SAE Italy & Formula Electric Italy, a university competition dedicated to engineering faculties all over the world.

The aim of the initiative is to develop student skills, including teamwork and general engineering abilities. The 2017 the event took place at the "R. Paletti" racetrack in Varano de 'Melegari (Parma) - partner of the initiative together with SAE International - with the main sponsorship of Dallara Automobili and Fiat Chrysler Automobiles, which participated with the Abarth brand, and with the Quattroruote media partnership.

FISITA Travel Bursary in Europe

FISITA offers up to EUR 2,000 to students taking part in international placements. When it comes to applying the scientific knowledge learned in the lecture theatre, there is no substitute for experience: real vehicles, real people and real problems to solve.

We have awarded many Travel Bursaries throughout Europe - the report below has been sent from bursary recipient Artem Umnitsyn:

Name: **Artem Umnitsyn**

Education: **NAMI, Russia**

Member Society: **AAE**

Placement: **TU Ilmenau, Germany**

Thanks to my FISITA Travel Bursary, I was able to study at the Automotive Engineering Group TU Ilmenau in 2017.

On my first day at the Automotive Engineering Group TU I was introduced to the team and they showed me a lot of different test-benches, designed to test the braking systems and shock absorbers of cars. In the research centre of the Automotive Engineering Group TU, I have been working five days a week, Monday to Friday.

During the internship, I developed an algorithm for controlling the anti-lock braking system (ABS) for an electric vehicle with blending braking friction brakes and an electric motor. The key features of this algorithm are:

- **application of the PI-regulator**
- **sliding mode controller for reference slip ratio.**

The control program was created only for linear motion vehicle. These studies directly relate to the topic of my thesis.

The study of algorithms for the operation of existing ABS and the creation of an own algorithm would be impossible without the help of the specialists I was working with in the laboratory. I especially want to mention Valentin Ivanov and Dmitry Savitsky for their invaluable help and responsiveness. During the internship they consulted me on emerging issues and gave valuable advice on work of various test-benches.

The internship allowed me to study a lot of material, which is necessary to further work and writing a thesis, while in my spare time I tried to do as much traveling to the Thuringian land as possible.

Asia

My role was to enhance communications and technical exchanges between the countries in the Asian regions. I am happy that the region has organised a range of international events in the last year and I hope that FISITA will continue to function as a hub for our Member Societies to explore knowledge, exchange ideas and to establish friendships. I am stepping down from my role in 2018, so I wish everybody at FISITA the best for the future.

Takao Kubozuka

Mr Takao Kubozuka, VP Asia

SAEINDIA and student retention

SAEINDIA has kindly provided insight on its student retention strategies, intended to inspire other Member Societies to engage and work with students and young engineers.

SAEINDIA has over 50,000 student members in more than 480 collegiate clubs located all over India. Collegiate clubs provide practical exposure to a professional engineering society as well as focal point for campus engineering programs and projects.

SAEINDIA offer student members programs and activities, fellowship, and leadership experience. Their student members are also entitled to many of the services available to SAEINDIA's regular members and exclusive benefits:

Free subscription to online magazines

Automotive Engineering, Aerospace Engineering and Off-Highway. These award-winning magazines cover hot topics about ground vehicle and aircraft developments, providing members with a valuable resource to help keep pace with rapidly changing technology in the mobility industry.

Discounted registrations for major SAEINDIA meetings and exhibits

This unique benefit puts members in touch with professional engineers and hardware suppliers who determine the future of expanding mobility industry worldwide. This is a valuable educational placement resource.

Discounts on SAE technical papers and books including the handbook

These valuable research materials expand a member's technical expertise on a variety of mobility related topics.

Discounts on SAEINDIA top-tech training programs

Student members get a handsome discount on fees for top-tech training programs. In most cases they pay just about half of the regular fee.

Free industry visits

Students are taken to the leading automotive vehicle and component manufacturer companies through their collegiate clubs based on request to these companies (however, it is not mandatory for these companies to accept the request all the time). These visits give first-hand information about the industrial environment.

Discount for transferring to regular membership

Members graduating from college can transfer into regular membership for a nominal amount applied while studying.

Priority project allocation for student projects

Automotive companies give preference for SAEINDIA student members in allocating industry projects and training.

Contacts and networking

Build friendships and future contacts with other engineering students and professionals from local SAEINDIA section, while participating in collegiate club programs and projects.

Scholarships

There are many scholarships to be won both at section level and national level through SAEINDIA Foundation. Student members are eligible to apply for some of the SAE International scholarship also.

Prioritised job opportunities

Automotive companies give preference for SAEINDIA student members in selection of candidates for placement in their companies.

Asia Pacific Automotive Engineering Conference

In 2017, The 19th Asia Pacific Automotive Engineering Conference (APAC19) took place in Shanghai, China. An interesting panel discussion on the subject of 'Increased Cooperation and Value Addition among Asia-Pacific region based FISITA Societies' took place during APAC19, moderated by Murli Iyer, Executive Advisor-Global, SAE International and FISITA VP Americas.

The key panelists were

- **Amelie Gong, Vice Secretary General of SAE-China**
- **Dhananjayan Munirathinam, Managing Director of Focus Engineering, India**
- **Takao Kubozuka, Executive Director, JSAE, and FISITA VP Asia**
- **Prof. Kwang Min Chun, Full Professor at the Department of Mechanical Engineering, Yonsei University, South Korea, and formerly President of KSAE.**

For the panel discussion, each member of the panel was asked to give a brief presentation covering the following key points:

- **Brief introduction of the society and its current activities/programmes for the benefit of its local members**
- **Global/region programs for knowledge sharing and skill development (for example Formula events, conferences, seminars, technical programs etc.)**
- **Proposals for starting/increasing regional activities in areas such as regional conferences, seminars, study team visits, student exchange programs, exchange of publications, etc. and the benefits that such activities would bring to both their members and others**
- **How larger bodies like FISITA, SAE International, JSAE, China SAE etc. could be leveraged for increased cooperation**

At the end of all presentations there was a Q&A session.

Asia

SAE-Australasia

The Society of Automotive Engineers - Australasia, celebrated its 90th Anniversary in May 2017.

Over a hundred individuals from various sectors of the industry attended the Society's 90th Anniversary Dinner Celebration. The room's vibrant atmosphere was attributed to the range of attendees, varying from students to senior executives from universities, OE manufacturers, aftermarket manufacturers and service providers, trades, media, and more.

Highlights from the night included a presentation from the Acting Deputy Secretary from the Department of Economic Development, Jobs, Transport & Resources, Dr. Michael Green, followed by a speech from Nicholas Muscat and Sidney McGibbon, the Society's youngest and eldest members respectively, and the inspiring story of Carbon Revolution's journey shared by Dr. Ashley Denmead, Engineering and Design Director at Carbon Revolution.

SAE-Australasia would like to thank all who attended this signification occasion and showed their support for the Society. They look forward to many more years of promoting mobility engineering excellence in the Australian industry.

Asia Members

China SAE

China SAE is leading the development of the ICV Innovation Center (CICV).

Proposed by the China Industry Innovation Alliance for the Intelligent and Connected Vehicles (CAICV) and initiated by China SAE and China Association of Automobile Manufactures (CAAM), the CICV was jointly established by FAW, DFAC, Chang'an, BAIC, GAC, Yutong, Jiangling, CATARC, APG, Baolong, Desay SV and TUS Cloud Control in 2018.

CICV focuses on national strategic demand and attaches great importance to problems that affect the industry's development. CICV provides a basic module and a generic platform for China to establish a new innovation system for its ICV industry, which enables companies to use their strengths and develop their technological competitiveness to stay ahead of the curve. And then, it can improve the competitiveness of China's ICV industry and accelerate its development.

Mr. Zhang Jinhua, EVP of China SAE; acts the president of CICV, Dr. Li Jun, President of China SAE, is the Chairman of Technical Committee, and Prof. Li Keqiang is the Chief Scientist.

To meet major demands of the ICV development, CICV developed the following technologies:

- **Broad technology module of L4**
- **Development strategy of ICV**
- **System architecture of ICV**
- **AI technology in ICV**
- **HMI technology in ICV**
- **Technical standards of ICV**

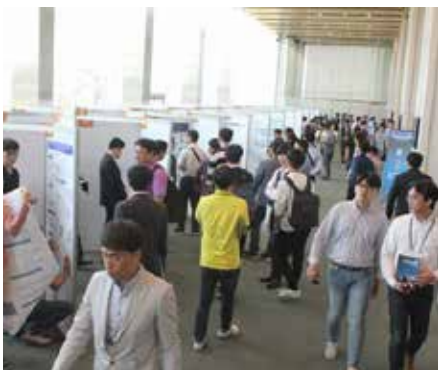
It also builds five technology platforms: HD map platform, ICV cloud control platform, new-type intelligent vehicle terminal platform, on-board computing platform, and functional safety and cyber security platform.

KSAE

The Korean Society of Automotive Engineers (KSAE) attracted thousands of engineers and researchers to network and exchange ideas at a number of leading conferences in 2017, including:

- **KSAE Spring Conference in Jeju - May 2017**
- **KSAE Baja/Formula/EV 2017 in Gunsan - August 2017**
- **KSAE Conference and Exhibition in Yeosu - November 2017**

KSAE Spring Conference



Asia

FISITA Travel Bursary in Asia

FISITA offers up to EUR 2,000 to students taking part in international placements. When it comes to applying the scientific knowledge learned in the lecture theatre, there is no substitute for experience: real vehicles, real people and real problems to solve.

We have awarded many Travel Bursaries throughout Asia - the report below has been sent from bursary recipient Haejoon Choi.

Name: **Haejoon Choi**

Education: **Ulsan National Institute of Science and Technology**

Member Society: **KSAE**

Placement: : **GM**

As an extension of my Master's study, I am completing a research internship on additive manufacturing at GM. Well known as 3D Printing, additive manufacturing technology is an important process to improve efficiency and quality for many industrial sectors including the automotive industry.

I conducted simulation experiments to find the optimal process parameters for additive manufacturing and learnt about CAD and simulation software such as HyperMesh and Abaqus. Also, I learnt how to use super computing system to efficiently conduct experiments.

My experience during this internship program will benefit my academic life and future career in many ways. As the internship program was closely related to my Master's degree study, I could get lots of information and ideas to improve my academic performance. Also, the experience of working abroad will benefit my career searches in the future so I appreciate FISITA's generous Travel Bursary Programme

By working and travelling in the US, my level of fluency in English increased dramatically. I studied for a TOEFL exam while in the US and I gained the required level score to apply for universities in U.S.

The internship program at GM R&D was very helpful for my future career, improving English skills and cultural understandings. I really appreciate the FISITA Travel Bursary Programme that helped me to have this priceless experience.

The Americas

As Executive Advisor of Global Affairs, I am responsible for developing SAE's strategic alliances with global partners and providing support and advice to our President and the Chief Executive Officer on strategic global relations/issues. As VP Americas, I serve on the Executive Board of FISITA and enjoy working with international markets by creating overseas chapters, strategic partnerships, and affiliate societies.

Mr Murli Iyer, VP Americas

SAE International

WCX World Congress Experience

SAE International's WCX World Congress Experience was held in April 2018 at the Cobo Center in Detroit. The event featured a full-spectrum, full-sensory interactive experience, uniting the mobility industry's best talent from innovation hubs around the world for active learning, high-powered collaboration and technological discovery.

More than 10,000 people from 49 countries attended WCX. The three-day event featured nearly 1,500 technical papers and presentations; and nearly 200 exhibitors showcased the latest technology and innovations on the show floor.

Some highlights from WCX included:

- **Keynote presentations from Ken Kelzer, Vice President, Global Vehicle Component and Subsystems, General Motors and Bob Lutz, Former Vice Chairman, General Motors; and Annual Banquet Presentation by Mark Reuss, Executive Vice President, Global Product Development, Purchasing and Supply Chain, General Motors Company**
- **Summit at the Exchange; Tech Hub at the Exchange; Knowledge Bar and Learning Lab – all featuring dynamic, interactive and customised presentations and discussions among subject matter experts and participants**
- **Connect2Car, which featured the latest and most critical industry information about automotive connectivity featuring: automated driving; integrated transportation; smart cities and smart grids; cyber security; regulatory developments and policies; and technology integration**
- **Bustling exhibit hall, featuring: six OEM exhibits; NAVYA fully autonomous shuttle demo on closed course; and WCX Connect (the new directory platform with enhancements and more robust options for exhibitors to showcase their company, solutions, etc.)**
- **Executive Leadership provide by General Motors with WCX Leadership Team comprising AVL, DENSO, FCA, FEV, Ford, Honda and Toyota**

- **Live streaming of selected Leadership Summit presentations, including 'Not Dead Yet – the Ever-Evolving ICE Powertrain'. Videos can be viewed online at: https://www.facebook.com/pg/SAEInternational/videos**

Americas Members

The Americas

COMVEC17

SAE International's COMVEC17 brought together over 500 commercial vehicle industry professionals in September 2017, to discuss their shared roles in vehicle and equipment development spanning many sectors, including the on- and off-highway, agricultural, and construction industries.

Dr. Johannes-Joerg Rueger, President, Commercial Vehicle and Off-Road, Robert Bosch GmbH, addressed a standing room-only crowd, sharing his thoughts on the trends, benefits and solutions regarding advanced driver assistance (ADAS) for on-highway vehicles and automation in both on- and off-highway operations during his opening keynote address.

COMVEC 17's technical program featured over 35 additional sessions spanning across variety of topics including data driven decision making, changes in the data landscape and posits on the future of business, advancements in electronics and predictive controls, improvements in the overall energy management of the system, efficiencies of hybrid and full-electric powertrains, the future role of aerodynamic design methods, tools and processes, among others.

COMVEC17

2019 President

In December 2017, SAE International announced Paul Mascarenas OBE as its President for 2019. Paul was the FISITA President from 2014-16 and then became the Chairman of the Board to FISITA UK Ltd from 1 January 2017.

Previously, Paul served as Chief Technical Officer and Vice President at Ford Motor Company. In that role, he led Ford's worldwide research organisation, overseeing the development and implementation of the company's technology strategy and plans. Paul also led the establishment of Ford's Silicon Valley Research and Innovation Centre, which supports the company's vision to provide uncompromised personal mobility for people around the world.

Paul will begin his one-year Presidential term in January 2019.

Paul Mascarenas OBE

AEA

China SAE is leading the development of the ICV Innovation Center (CICV).

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CICV focuses on national strategic demand and attaches great importance to problems that affect the industry's development. CICV provides a basic module and a generic platform

SIMEA 2017

FISITA Travel Bursary in The Americas

FISITA offers up to EUR 2,000 to students taking part in international placements. When it comes to applying the scientific knowledge learned in the lecture theatre, there is no substitute for experience: real vehicles, real people and real problems to solve.

We have awarded many Travel Bursaries throughout the Americas - the report below has been sent from bursary recipient Aarjan Poudel.

Name: **Aarjan Poudel**

Education: **Memorial University of Newfoundland, Canada**

Member Society: **SAE International**

Placement: **University of Petroleum and Energy Studies, India**

This internship experience was not only technically rich, but it also opened my eyes to new cultures. I worked as an Automotive Internship Student in University of Petroleum and Energy Studies in India. My internship involved experimental and research work regarding nanolubricants.

During my internship, I conducted a comprehensive literature review by extracting relevant information from published articles about nanolubricants. After this, I prepared nanolubricants samples by mixing five nanoparticles i.e. ZnO, SnO_2, Fe_3O_4, CuO and TiO_2 with regular engine oil. Then I conducted several experiments on these nanolubricants using rheometer, X-ray Diffraction and Photoluminescence instrument and collected data of different properties i.e. viscosity, photoluminescence etc. I compiled this information & data and prepared a journal and research article. This internship helped me to develop professional report writing and research skills. Also, I gained valuable insight on Nanotechnology and its application.

Other than the work-related experience, one phrase that describes my experience in India is "Chaos and Calm". India is one of the most culturally diverse countries in the world and the land of extremes. The university itself was the example of cultural diversity as students from all over India came to this university with their own culture and even language. Slowly I got to know people over there - they are very intelligent, calm understanding and friendly. India has a lot of natural and cultural places to visit. After travelling a bit in India and staying in India for some months I can say that India has a charm.

Education activities 2017/18

FISITA's diverse and innovative range of education initiatives encourage students and young engineers around the world to showcase their ideas and learn from their peers and experts whilst building confidence in their mobility engineering abilities – we are committed to inspiring the engineers of the future to develop skills, knowledge and a passion for mobility solutions.

The Your Future in Automotive section of FISITA's website continued to grow in terms of information and visitors through 2017 and is considered a valuable and trustworthy resource for students and young engineers. Advice, information and guidance is available for young people learning about STEM subjects at school, through to students, graduates and young engineers focused on pursuing their passion for mobility engineering.

Applications and awards for the FISITA Travel Bursary continued to rise and the success of the EuroBrake Student Opportunities Programme served to demonstrate that FISITA's reach is extending further around the world, guiding more students and young people towards choosing mobility engineering as their destination career.

The FISITA Travel Bursary continued to receive applications from students attending placements around the world:

- **Since its launch in 2006, FISITA has awarded Travel Bursary has awarded over EUR 340,000 to more than 280 students from over 35 countries who have carried out placements at over 140 companies around the world**
- **In 2017 FISITA received 52 Bursary applications**
- **In 2017 FISITA awarded Bursaries to 32 applicants**

Our International University Guide expanded to include over 700 engineering courses at over 260 universities around the world and will continue to increase as more courses are updated, developed and added.

Under the banner 'Inspire to Aspire' FISITA has continued to develop its education enterprise. The Friend for Life initiative is an online international engineering community bringing together students, academics and industry professionals to network, share ideas and learn from one another.

The Work Experience Programme was launched as a benefit to our Corporate Members whereby FISITA support and promote their work experience placements and internships to the student members of our Member Societies. Placements have been promoted with Adient, Applus IDIADA, Bosch and Maserati since 2016.

As one of the world's leading advocates for careers in mobility engineering, FISITA sustains the drive to encourage the best and brightest minds to join our developing industry through our education resources and established links with leading automotive and mobility companies.

The Academic Advisory Board (AAB) was set up with a group of founding members from international universities and academic institutions who are leaders in engineering education. The AAB is working towards development and delivery of the Engineer 2030 initiative in collaboration with the Industry Committee, along with support from the Education Committee and Technical Committee. The AAB is committed to supporting the growth and success of the FISITA education activities whilst providing a link and dialogue between FISITA and academia.

Your Future in Automotive.com at a glance:

Page views
152,492

Top three pages:
What does an auto engineer do?
YFIA homepage
International University Guide

Top site visitors by country:
UNITED STATES
INDIA
UNITED KINGDOM

FISITA Events Round up

FISITA PLUS

An important milestone in 2017 was the launch of FISITA PLUS, a one-day conference created to support this engineering generation's development of safe, sustainable and affordable mobility.

As FISITA shifts away from its traditional 'membership only' conference status, we were delighted to bring the technical perspective of the fast-evolving mobility landscape to a broader community. So, in July, we welcomed over one hundred of the world's leading mobility technologists and professionals to the first FISITA PLUS conference at the iconic County Hall in London, UK.

The one-day conference was a huge success, featuring an unrivalled line-up of international speakers, who delivered visionary and inspiring presentations to an extremely engaged audience. The day's technology focus culminated with a headline speech by Andy Palmer, Vehicle Line Director at McLaren Automotive Ltd, who delivered an insight to how the fast-evolving mobility industry is influencing the future of McLaren Automotive.

The Leadership Interview, hosted by Paul Mascarenas, was the centrepiece of the conference, featuring Ford's former CTO and current independent director, business advisor and technology executive, in discussion with Jon Lauckner, Chief Technology Officer and VP of R&D at General Motors.

As part of the conference, a McLaren 570S was displayed outside County Hall, which drew significant attention from delegates and passing crowds. As Headline Sponsor to FISITA PLUS, the Centre for Connected & Autonomous Vehicles also arranged for the driverless Pod Zero® vehicle to sit outside the venue, which was developed by RDM Group.

We're delighted to confirm that FISITA PLUS returns to County Hall in 2018 and 2019.

"FISITA PLUS was a great conference and I enjoyed presenting to delegates about McLaren Automotive and what drives us as we prepare for the future. It was inspiring to hear from leaders within our industry, the level of knowledge sharing and thought leadership demonstrating the value of community and collaboration. It was a really excellent day and I'm looking forward to 2018."

Andy Palmer
Vehicle Line Director
McLaren Automotive Ltd

FISITA World Automotive Summit 2017

The 8th annual FISITA World Automotive Summit took place in Geneva, Switzerland, in November where technical leaders from around the world gathered to participate in the 2017 event, entitled 'Clearing the air; creating a path to sustainable mobility'.

During the two-day Summit, delegates received more than ten innovative and inspiring presentations, covering key topics:

- **Economical and environmental impact**
- **Regulatory activities and global regulations**
- **Building an industrial strategy for sustainable mobility**

We welcomed speakers from automotive and partner industries including Adient, the Berlin Senate Department, BJEV R&D Institute, FEV Europe GmbH, Greenpeace UK, Qualcomm and the United Nations Economic Commission for Europe.

As part of the programme, delegates were taken to the CERN Globe of Science and Innovation - one of the world's largest and most respected centres for scientific research - where we hosted the Kick-off Session and Welcome Dinner. Delegates also visited the fascinating CERN exhibition, "Universe of Particles" and were provided with a choice of tours - the ATLAS Visitors Centre or SM18 Cryomagnets facility.

The World Café session has become a regular feature of the Summit, allowing for peer-to-peer dialogue and creative collaboration. This year's discussion and debate helped generate the creation of an Executive Summary, which provided a helpful round-up of Summit activity.

"The FISITA World Summit 2017 was excellent. We had outstanding presentations from people that were talking about the challenges and opportunities for mobility in the future – I've really loved being here."

François Guichard
Intelligent Transport Systems and Automated Driving, United Nations Economic Commission for Europe

FISITA Events Round up

EuroBrake 2017

In May 2017, the world's largest braking conference returned to Dresden, Germany, where we welcomed more than 1,000 delegates to EuroBrake 2017.

The annual event, organised by FISITA, has become a must-attend date in the braking community's calendar and now in its sixth year, attracted delegates from the industries of passenger cars, commercial vehicles, rail, aerospace and academia.

The technical programme for 2017 consisted of 25 technical sessions and over 140 technical presentations, while over 100 international organisations also took part in the exhibition. The Opening Keynote presentations were delivered by Franck Poisson of French rail operator SNFC and Dr. Ralf Leiter of Tier 1 supplier Mando Corporation, while a special Panel discussion helped to raise important issues and generate lively debate about brake emissions.

New to 2017, FISITA introduced the Student Opportunities Programme (ESOP), providing 50 students with a unique opportunity to participate with full delegate passes and an exclusive lounge to network with experienced industry professionals and gain career advice in a relaxed setting. They spoke to colleagues from programme sponsors including Daimler, NUCAP, Audi, Bosch, Brembo, Continental, Lapinus Fibres, TMD Friction, Zeon and ZF.

"The EuroBrake Student Opportunities Programme was a great learning opportunity for students to attend technical sessions, meet HR professionals and advance technical knowledge. I would recommend that others take advantage of this scheme to explore the world of braking technology and meet experts from the automotive industry."

Bhaskar Gokak
HAN Automotive Institute
ESOP 2017 student

FISITA Organisation

Vision

Promoting excellence in mobility engineering

Mission

To promote knowledge sharing among stakeholders in a way that positively contributes to the development of safe, sustainable and affordable mobility solutions and helps guide the future direction of the global automotive engineering profession.

Executive Board Members

President and Chairman	**Daniel E. Nicholson**
President-Elect	**Dr Frank Zhao**
Immediate Past President	**Paul A. Mascarenas OBE**
Past President	**Dr. Li Jun**
Chief Executive	**Chris Mason**
Vice President Americas	**Murli Iyer**
Vice President Asia	**Takao Kubozuka**
Vice President Europe	**Dr.-Ing Carles Grasas**
Vice President Education	**Ludek Hyncik**
Vice President Internal Relations	**Christof Kerkhoff**
Vice President Technical	**Dr Thomas Johnen**
Vice President Finance	**Dr David Schutt**
Delegate General & Treasurer	**Dipl.-Ing Remi Bastien**
Vice President Strategic Planning	**Dr.-Ing Karl Siebertz**
Vice President Industry	**Hiroaki Okuchi**

Finance

Report and Financial Statement for the year ended 31 December 2017, a full copy of which is available on request.

FISITA (UK) Limited

Financial year	2017	2016
Turnover	**1,394,543**	**1,320,195**
Less overheads		
Operating costs	1,409,891	(1,345,049)
Operating profit	**(15,348)**	**(24,854)**
Interest receivable	(12,554)	(13,247)
Investment income	54,485	45,441
Profit for the year	**£26,583**	**£7,340**

FISITA

Financial year	2017	2016
Turnover	**27,780**	**38,983**
Less overheads		
Operating costs	20,062	20,062
Operating profit	**17,718**	**31,823**
Investment income	58,889	48,860
Profit for the year	**£76,607**	**£80,683**

Member Societies

Our network of 37 Member Societies represents a growing community of over 210,000 automotive engineers, spread across five continents. These engineering societies represent the interests of their members and help to disseminate and share automotive technology, both locally within their country of operation and to an international audience.

Strategic Partners

FISITA's Strategic Partners, listed below, are stakeholder organisations engaged in promoting excellence and diversity in the advancement of automotive, mobility systems engineering and associated technologies.

Corporate Members

Leaders from many of the most influential companies within the global automotive mobility industry are FISITA Corporate Members. They work with FISITA in support of our mission to develop safe, sustainable and affordable mobility solutions and promote the global professional development of engineers.

3M · ADIENT · AW · AISIN · akebono · Applus IDIADA · AVL

北汽集团 BAIC Group · BMW GROUP · BorgWarner · BOSCH Invented for life · bp · BRIDGESTONE

Calsonic Kansei · FAW · Continental · DAIMLER · DENSO · faurecia

FCA · FEV · Ford · GM · 玉柴机器 YC DIESEL · HITACHI Inspire the Next · HONDA The Power of Dreams

MIRA · HYUNDAI · JAGUAR · LAND ROVER · Jatco · JTEKT · KOITO

MAGNA · Mentor A Siemens Business · Mitsubishi Chemical Holdings Corporation · MITSUBISHI MOTORS · MITSUI CHEMICALS, INC.

NIO · NISSAN MOTOR CORPORATION · Panasonic · QUALCOMM · RENAULT · SAIC 上汽集团 SAIC MOTOR

SCHAEFFLER · SUMITOMO CHEMICAL · TATA MOTORS · TE · TEST WORLD

TOSHIBA · TOYOTA · VOLKSWAGEN AKTIENGESELLSCHAFT · YAZAKI · ygomi · ZF

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