Exploring the future of mobility engineering
A one-day conference for mobility technologists and professionals

13 July 2017
County Hall, London
United Kingdom
www.fisita.com/fisitaplus

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Welcome to the first FISITA PLUS conference, a significant milestone for our organisation as we open our doors and introduce the most progressive speakers to a new audience. As FISITA shifts away from its traditional ‘membership only’ conference status, we are bringing the technical perspective of the fast evolving mobility landscape to a broader community.

The FISITA Executive Board considers this development to open a dialogue outside of our membership community as strategically important at a time when transportation requirements are so rapidly changing. Our customers’ needs are also progressing and mobility technology is developing at a pace that we haven’t experienced collectively in more than 100 years of automotive technological advancement.

The incoming technology associated with our increasing desire for effortless mobility is creating an unfamiliar, transitional sector as traditional auto-makers become the mobility service providers of tomorrow. New entrants to the market are creating a complex environment as our industry delivers unprecedented technological advancement.

The mobility agenda is bringing change and disruption; the traditional theories of mechanical and electrical engineering are being complemented and augmented by IT, systems controls, robotics and artificial intelligence engineering, which together bring a wealth of new challenges and opportunities for those creating this new and progressive mobility sector.

Here at FISITA, we pride ourselves on supporting the world’s engineers as they deliver the safe, sustainable and affordable mobility required by the global population. For nearly seventy years we have provided a platform that allows technologists to come together and support each other with the advancement of technology, at whatever point in time this may be.

In 2017 the challenge may be different, but the role of FISITA remains the same – engineers create solutions, and FISITA supports them to do so. We continue to develop as an organisation and we are delighted that we are now able to share an insight into our world with the launch of FISITA PLUS.

We are delighted that you have joined us - we’re certainly looking forward to welcoming you to the international FISITA community.

Dan

Dan Nicholson
FISITA President

Chris Mason
FISITA Chief Executive Officer
About FISITA PLUS

In 2017 FISITA opens its doors to a new audience with the launch of FISITA PLUS – a one-day conference created to support this engineering generation’s development of safe, sustainable and affordable mobility.

The Conference

Nine guest speakers, hand-picked by the FISITA executive team, will deliver their ‘real-world’ perspective on future mobility, at County Hall in London. We welcome a prestigious presenter line-up from some of the world’s leading mobility companies:

- IFVS
- Ford
- GM
- GROUPE RENAULT
- McLaren
- Shell
- Tata Motors
- Toyota

Speakers will present under the headings of:

- **The Mobility Future**
- **Artificial Intelligence and Mobility Technology**
- **Propulsion of the Future**

The day will commence with a video welcome from FISITA President, Dan Nicholson, VP Global Propulsion Systems at General Motors, live from GM’s Pontiac Engineering Center in Michigan.

The Leadership Interview hosted by Paul Mascarenas will be the centre-piece of the conference, featuring Ford’s former Chief Technology Officer 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.

The day’s technology focus will culminate with a headline speech by Andy Palmer, Vehicle Line Director at McLaren Automotive Ltd. Andy will deliver a fascinating insight to the world’s leading automotive specialists at FISITA PLUS about the fast evolving mobility industry - a topic that is shaping the future of McLaren Automotive.

Wi-Fi access is complimentary:

Network: etcvenues
Passcode: wifi4077

Official Twitter hashtag: #FISITAPLUS
Programme

Thursday 13 July

08:30  **Registration**

09:20  **Welcome**
Dan Nicholson,
FISITA President and Global
Propulsion Systems Vice-President,
General Motors

09:30  **Session 1: The Mobility Future**
Michael Hurwitz,
Director of Transport Innovation,
Transport for London
Mega City Transportation

K. Venkatesh Prasad,
Senior Technical Leader,
Open Innovation,
Ford Motor Company
Ford’s Autonomous Future

Dipl.-Ing. Bernhard H. Biermann,
Vice-President Europe & South America,
FEV
Powertrain Evolution

11:00  **Break**

11:20  **Session 2: Artificial Intelligence & Mobility Technology**
Prof. Dr. Luc Van Gool,
Professor of Computer Vision,
KU Leuven/Toyota Motor Corporation
Deep learning, high hopes

Dr. Tim Leverton,
President and Chief Technical Officer,
TATA Motors
The Future of Mobility in India

12:45 – 13:45  **Lunch**

13:45  **The Leadership Interview hosted by Paul Mascarenas**
Mr. Jon Lauckner,
Chief Technology Officer, General Motors

14:35  **Session 3: Propulsion of the Future**
Dr. Wolfgang Warnecke,
Chief Scientist Mobility, Shell
The Mobility Challenge - Fuels Options for the Future

Dipl.-Ing. Remi Bastien,
VP - Automobile Prospective,
Renault Group
Electric Vehicles, a Necessary Mutation for Automotive Industry

15:35  **Closing Session**
Special Guest Speaker:
Andy Palmer,
Vehicle Line Director – Ultimate Series,
McLaren Automotive

McLaren Automotive: What drives us

Closing Remarks
Chris Mason,
Chief Executive Officer, FISITA

16:20  **Networking Drinks**
Moderator and Kick-off Session Speaker

Mr. Chris Mason
Chief Executive Officer
FISITA

Chris joined FISITA as Chief Executive Officer in August 2014, continuing a successful career and bringing over 30 years’ experience working in the automotive industry.

Prior to joining FISITA, Chris spent 14 years working within the Society of Motor Manufacturers and Traders, the UK’s premier automotive membership organisation, was a member of the senior management team and Managing Director of subsidiary, Motor Codes.

During this time Chris became recognised as an expert within the UK automotive industry and received recognition and awards from the industry for his work throughout the years.

He is a Fellow of the Institute of the Motor Industry and is regularly featured in the UK industry’s top 50 ‘movers and shakers’ list.

Chris is now focused on leading FISITA and ensuring the organisation continues to thrive as a modern and versatile organisation, providing a platform for global knowledge exchange and facilitating co-operation and support amongst FISITA’s membership.

Mr. Dan Nicholson
FISITA President and Global Propulsion Systems Vice-President, General Motors

Dan Nicholson was appointed to his current position in December 2014. Dan was the Executive Director for Global Powertrain (now Global Propulsion Systems) Embedded Controls at GM. He was responsible for running the day-to-day operations of the global engineering team responsible for all powertrain controllers and software as well as calibrating all powertrains.

Dan began his career with General Motors as a co-op student at Buick Motor Division in 1982. He has an extensive background in Product Engineering and subsequently progressed through a series of leadership positions including engineering group manager, director of controller integration, director of engine calibration, chief engineer for V8 engines, managing director of GM Powertrain-Germany GmbH where he led all powertrain operations for the country unit and Vice-President of Global Quality.

Dan, 52, earned a bachelor of science degree in mechanical engineering from General Motors Institute (now Kettering University), a master of science degree in mechanical engineering from Texas A&M University and a master of business administration degree from Stanford University. He is the FISITA President 2016-2018, a trustee of the SAE Foundation and a director of the Engineering Society of Detroit.
Mr. Michael Hurwitz
Director of Transport Innovation
Transport for London (TfL)

Mr. Hurwitz is responsible for identifying areas where disruptive business models and technology have potential to impact TfL business, developing and agreeing policies and programmes to address the complex challenges these present. He is also responsible for driving collaborations between the private sector and central Government, ensuring London stays at the forefront of innovative, integrated transport provision.

His previous role was Director of Energy, Technology and International at UK Department for Transport, where he was responsible for establishing national policies and programmes worth £1bn on low and ultra-low emission vehicles, driverless and connected cars, future fuels and international negotiation of regulations on vehicle safety and emissions.

Former roles include Founder of the Cross-Government Office for Low Emission Vehicles (OLEV) as the UK Department for Transport’s Strategy Director and Policy Fellow at the Energy Futures Lab, Imperial College London.

Dr. K. Venkatesh Prasad
Senior Technical Leader, Open Innovation
Ford

Dr. K. Venkatesh Prasad is the Senior Technical Leader for Open Innovation and a member of the Ford Technology Advisory Board. He is also Ford’s Global Innovation Implementation Leader, Vehicle Components & Systems Engineering.

Dr. Prasad is known as Ford’s “What’s Next” guy, responsible for influencing both transformative and organic innovation at Ford. He was previously responsible for the research, architecture, standards, and proof-of-concepts development electronics and embedded software systems.

His revolutionary thinking of a contemporary vehicle as an inter-networked platform-on-wheels in early 2000 has led to the successful development of the renowned Ford SYNC® system, which has directly impacted Ford’s present vehicle production.

Before joining Ford Motor Company in 1996, Dr. Prasad worked as a senior scientist at RICOH Innovations in Menlo Park, California, developing automatic “lip reading” as a novel human-machine interface. In addition, he was at Caltech and the NASA Jet Propulsion Laboratory in Pasadena, California, where he worked on the world’s first telerobotic visual surface inspection system to help design the International Space Station.

Attracted by an open-ended challenge to discover ways to integrate “intelligence” into cars and trucks, Dr. Prasad joined Ford to work with a small group of engineers in the development of adaptive headlamp and lane-mark detection technologies.
Dipl.-Ing. Bernhard Biermann
Vice-President Europe & South America
FEV

Dipl.-Ing. Biermann is Vice-President Europe & South America of FEV Europe GmbH and Chairman of the Board of Directors at FEV UK Ltd.

For over ten years, Dipl.-Ing. Biermann has worked in a business development role within Europe, focusing on commercial, industrial and large engines customers in the UK and Scandinavian markets.

Prior to this he gained 8 years of experience with testing solutions in the fields of program management, project planning, production, sales and marketing.

Having joined FEV in 1990, he developed nine years of engineering expertise in gasoline thermodynamics and benchmarking as well as project management.

Prof. Dr. Luc van Gool
Professor of Computer Vision
KU Leuven / Toyota Motor Corporation

Prof. Dr. Van Gool is a full professor at KU Leuven in Belgium and ETH in Switzerland. He leads Computer Vision research at both as well as the TRACE labs collaboration with Toyota on autonomous cars.

He obtained a degree in electro-mechanical engineering at KU Leuven in 1981 and has authored over 400 papers in the field of Computer Vision. He has been involved in the organization of several major vision conferences (e.g. ICCV’05 and ’11, ECCV’14).

Prof. Dr. Van Gool was Associate Editor for leading Computer Vision journals (IJCV, T-PAMI, MVA) and is currently editor-in-chief for Foundations and Trends in Computer Graphics and Vision. He has received several prizes including the ISPRS Helava Award (2012), the 5-yearly Excellence Prize by the Flemish Fund for Scientific Research (2015) and the Koenderink Award (2016).

Dr. Tim Leverton
President and Chief Technical Officer
TATA Motors

Dr. Tim Leverton is President and Chief Technical Officer for TATA Motors and a member of the TATA Motors Executive Committee. In this role, he is responsible for overseeing the global R&D of all TATA branded passenger cars, trucks and buses.

He has held a number of senior management positions with the Rover Group and Land Rover, BMW Group as Chief Engineer for the 2003 Rolls-Royce Phantom, and JCB as Group Engineering Director. While at JCB he led the successful JCB Dieselmax project which raised the world land speed record for diesel powered cars to 350mph (563kph) at Bonneville Salt Flats, Utah, USA in August 2006.

Dr. Leverton has a BSc degree in Mechanical Engineering from Aston University, UK and an MBA and Engineering Doctorate from Warwick University, UK. He was awarded the Fellowship of the Royal Academy of Engineering, UK in 2008. In July 2014 he was awarded an Honorary Doctor of Science degree by Aston University, UK.
### Prof. Walter van Dyck
**Area Chair Technology & Operations Management**
Vlerick Business School

Prof. Walter van Dyck Chairs the Technology and Operations Management Area at Vlerick Business School. His research, teaching and counselling plays a valuable role in the field of innovation processes, innovation ecosystems and entrepreneurial business models. He studies these in global industry sectors like biopharmaceuticals and smart mobility, conducting research with companies like Ford, TNO (Netherlands), Johnson & Johnson, Roche, and MSD.

He obtained a Doctorate of Business Administration with the highest honours from Cranfield University, School of Management, UK, a BA and MA from the Royal Military Academy, Brussels, specialising in electronics and telecom, and an MBA from Vlerick. Prior to joining academia, he was Senior Strategy Consultant with PricewaterhouseCoopers and IBM in the fields of R&D and innovation management, predominantly active in global pharmaceutical and biotech companies.

### Mr. Jon Lauckner
**Chief Technology Officer**
General Motors

Mr. Jon Lauckner was named GM Vice-President and Chief Technology Officer (CTO), effective April 1, 2012. In addition to his role as CTO, Jon is President, GM Ventures and also responsible for leading GM’s Global Research and Development organization.

Prior to becoming CTO, Mr. Lauckner was responsible for forming General Motors Ventures, LLC, a separate subsidiary started July 1, 2010. As president, he leads a team that makes equity investments in startup companies that are developing next-generation automotive technology.

Mr. Lauckner has also previously held the positions of Vice-President of General Motors Global Product Planning and Vice-President of Global Program Management.

Mr. Lauckner joined General Motors in 1979 and held a number of positions in product engineering, powertrain engineering and product development, including international assignments in South America and Europe from 1992-2005.

Mr. Lauckner received a Bachelor of Science degree in mechanical engineering from the University of Michigan in 1979. He earned a Master of Science degree in management from Stanford Business School in 1990 through the Sloan Fellowship program and attended the GM-Harvard Senior Executive Program in 2001.
Mr. Paul A. Mascarenas OBE
Independent Director, Business Advisor and Technology Executive

Mr. Paul Mascarenas OBE is Chairman of FISITA (UK) Ltd. Previously he was President and Chairman of the Executive Board of FISITA from 2014 - 2016. Paul is a Member of the Board of Directors at ON Semiconductor and the U.S. Steel Corporation; he is also Special Venture Partner with Fontinalis Partners.

Previously, Paul served as Chief Technical Officer and Vice-President - Engineering, Global Product Development, 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 Center, which supports the company’s vision to provide uncompromised personal mobility for people around the world.

A fellow of the Institution of Mechanical Engineers, Paul was elected a fellow of the Society of Automotive Engineers in 2009. He served as general chairperson for the 2010 SAE World Congress and Convergence and has served on the FISITA board since 2012.

Paul holds a mechanical engineering degree from the University of London, King’s College in England and in June 2013, received an honorary doctorate degree from Chongqing University in China. In 2015, he was awarded an OBE by Her Majesty, Queen Elizabeth II, for his services to the automotive industry.

Dr. Wolfgang Warnecke
Chief Scientist Mobility Shell

Dr. Wolfgang Warnecke was appointed as Chief Scientist of Mobility for Shell in May 2011

Shell’s Chief Scientists contribute internationally recognised scientific expertise and nurture innovative technology to help deliver project development and business growth. Dr. Wolfgang’s expertise in all forms of mobility, vehicle technology, fuels and lubricants sees him advising on technology strategy, championing science, R&D and innovation, enhancing Shell’s technical reputation in the fast-changing area of mobility and looking ahead to future solutions in transportation.

Dr. Wolfgang was born in Hamburg, Germany. After studying Mechanical Engineering at the Technical University of Hannover (specialising in automotive combustion engines), he gained a PhD in Automotive Engineering from Hamburg Tech. University in 1987.

Since joining Shell on graduation, Dr. Wolfgang has gained extensive experience both in Germany and the UK as a scientist and business leader in the fields of lubricant development, engine testing and vehicle technology, technical services for lubricants and in fuels marketing. He has led both automotive fuels and lubricants development in Hamburg before global management roles in lubricants and, more recently, retail and automotive fuels development.

Dr. Wolfgang’s expertise in engine technology and automotive products has earned him extensive recognition across the automotive industry as well as by academia. He has made close to 100 publications, and owns a wide global network across the global automotive industry, including the motorsport industry. As an example of his involvement and expertise in global motorsport, Dr. Wolfgang has also been a member of the FIA’s WEC Endurance Commission which develops the sporting regulations for the World Endurance Championship.

In 2005, Dr. Wolfgang, together with Dr. Wolfgang Steiger of Volkswagen was awarded the Professor Ferdinand Porsche Prize, considered by many to be the world’s most prestigious award for automotive engineers, for their work on synthetic fuels development.
Plenary Speakers

Dipl.-Ing. Remi Bastien
Vice-President – Automobile Prospective
Renault Group

Dipl.-Ing. Bastien is Vice-President for Automotive Prospective at Groupe Renault, reporting to the Executive Vice-President of engineering. Remi joined Renault in 1982, where his areas of responsibilities developed to include powertrain engineering on environment, performances and electronics until 2002.

As Vice-President from 2002-07, he was in charge of EMS development and calibration for powertrains, later becoming Deputy to the SVP for powertrain engineering until 2008. He was Chairman of Electronic and Automatism at the Renault network from 2006-2009 (cross functional).

He then became Vice-President for Research and Innovation for Renault Group between 2009-15, before becoming Global Director for Autonomous Driving at the Renault/Nissan Alliance between 2015-16.

He is Chairman of VEDECOM (French cooperative research institute), a Member of the Automotive Research Council of the French Automotive Platform and also a Member of the EUCAR Council (former chairman in 2012).

Mr. Andy Palmer
Vehicle Line Director – Ultimate Series
McLaren Automotive Ltd.

Mr. Andy Palmer is responsible for the development of new vehicles for McLaren Automotive. Palmer joined McLaren Automotive in 2013 to assist in the development of new product and the strengthening of their world class Product Development team.

Prior to this role Mr. Palmer was the Engineering Director of Ford’s joint venture in Russia, FordSollers, with responsibilities for overseeing the development and implementation of the company’s technology, product cycle plan and strategy for the Russian market.

Mr. Palmer holds a degree in Aeronautical Engineering from the University of Hertfordshire and a Masters degree in Mechanical Engineering from the University of Michigan. He is passionate about all forms of vehicle engineering and an avid classic car collector.
Venue

The venue for FISITA PLUS is London’s iconic County Hall, featuring views over the River Thames to the Houses of Parliament and Big Ben. The venue was recently brought back to life following a multi-million pound investment to help restore the original parquet floors and art deco windows.

Last occupied by the Greater London Council in the 1980’s, County Hall is now firmly established as a world class venue, attracting delegates from across the globe. FISITA is proud to be hosting the first FISITA PLUS at this historic venue, which will be recognised by delegates from around the world.
The Centre for Connected and Autonomous Vehicles keeps the UK at the forefront in the development of connected vehicles. It was set up in 2015 as a joint policy unit between the Departments for Business (BEIS) and Transport (DfT).

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Our holistic approach to securing the CAV ecosystem is the only way to protect against cyber threats, build consumer confidence and ensure resilience. We are leading and influencing the debate at the global level.

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CCAV was established by the Government to help make the UK one of the world’s premier destinations for the development of connected and autonomous vehicle (CAV) technology.

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Research that delivers real world solutions
We are supporting around 150 companies and research organisations across 50 collaborative projects to develop and test novel technologies and services.

CAVs which are secure by design
We are helping industry to develop systems and guidelines that ensure user trust, consent and security.
The IMI is the professional body for individuals working in the motor industry, and the authoritative voice of the sector.

The IMI is transforming the automotive industry by setting, upholding and promoting professional standards - driving skills acquisition, establishing clearer career paths, and boosting public confidence.

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The Register is a leading global online tech publication, with more than nine-million monthly unique browsers worldwide.

Starting out in London in 1994 as an occasional email newsletter, The Register began publishing online daily in 1998. Today The Register is headquartered in London, San Francisco and Sydney and the sun never sets on its reporting team around the world.

Many Register readers are technology professionals but it’s also read by technology enthusiasts, shed boffins, policy wonks and science fans around the globe. They cover hardware, software, AI, tech services and more, but The Register is also known for its “off-duty” articles, on science, tech culture, planes, trains, bridges and other feats of engineering. They also carry cult columnists such as the fiendish sysadmin BOFH, programming goddess Verity Stob and Something for the Weekend’s Alistair Dabbs.

www.theregister.co.uk
About FISITA

FISITA is the international membership organisation that supports the automotive and mobility systems sector in its quest to advance technological development. Having delivered against this mission for every generation of engineers since 1948, we are uniquely placed to promote excellence in mobility engineering and the development of safe, sustainable and affordable mobility solutions.

Since creation, FISITA has seen significant growth in influence and relevance. 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. Achieved through organising and delivering internationally-acclaimed technical events, including the World Automotive Congress, the World Automotive Summit, the newly-created FISITA PLUS conference and EuroBrake, the world’s largest braking technology conference; as well as endorsing significant events run by our Member Societies.

The FISITA Roadmap to 2020 strategic engagement plans see our organisation’s continued investment in the next generation of engineers through the ‘Your Future in Automotive’ initiative, the long-term Engineer 2030 project and International Work Experience Programme, while our recently formed Industry Committee is pioneering our strategic tracking of the evolving mobility sector through the FISITA Eco-System mapping project – ensuring that our organisation continues to deliver leadership and a relevant community to this and future generations of engineers.

Engineers create solutions, FISITA continues to support them to do so.
Our Member Societies and Corporate Members benefit from FISITA membership through access to a range of international technical events, knowledge sharing, committee activities and technical networking opportunities. As well as engaging with the world’s technical leaders, FISITA also provides a platform to inspire the next generation to choose a career within the automotive mobility industry. Find out more about joining FISITA at www.fisita.com/membership

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General Motors is proud to participate in FISITA PLUS. As a leader in innovative transportation, we are committed to focusing on technologies that matter most to our customers.

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