

Symposium on International Automotive Technology (SIAT)

18 – 21 January 2017 INDIA



SMMT
DRIVING THE
MOTOR INDUSTRY

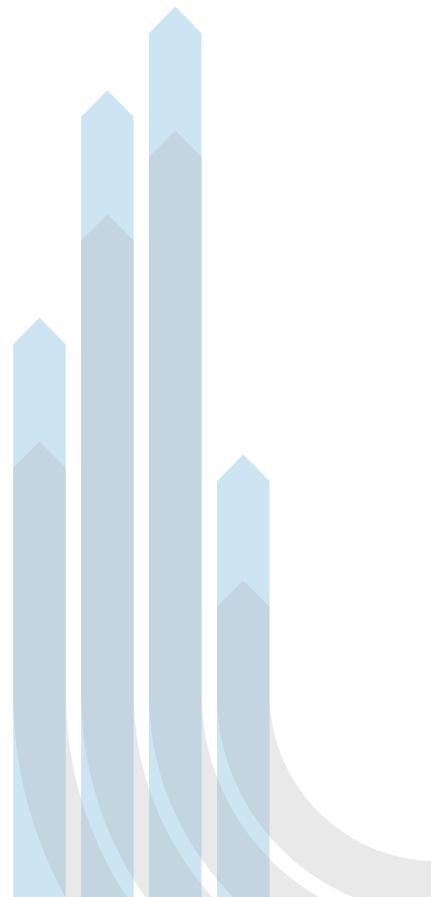


PROUD TO SUPPORT
**BUSINESS
IS
GREAT**
BRITAIN & NORTHERN IRELAND

**THE SOCIETY OF
MOTOR MANUFACTURERS
AND TRADERS LIMITED**

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The Society of Motor Manufacturers & Traders



The Society of Motor Manufacturers and Traders (SMMT) is one of the largest and most influential trade associations in the UK, supporting the interests of the UK automotive industry at home and abroad. Working closely with member companies, SMMT acts as the voice of the motor industry, promoting its position to government, stakeholders and the media.

Enabling UK Automotive to fulfil its potential, SMMT addresses the major issues that impact on the motor industry; environment, new technology, globalisation, competitiveness, education and training, legislation and consumer protection.

The UK is home to a thriving aftermarket sector worth £21.1 billion - and predicted to grow to £28 billion by 2022. Independent repair shops account for the largest proportion of the sector, and tens of thousands of workshops and parts suppliers are currently based in the UK.

Find the companies exhibiting on the UK Pavilion on Stalls 136 – 141

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The Department for International Trade is delighted to be associated with SIAT 2017 working with our partners SMMT. It gives me great pleasure to welcome you to our pavilion which showcases the UK's leaders in automotive technology, manufacturing services and engineering consultancy with a focus on energy efficiency incorporating low carbon technologies.

The UK is the second largest manufacturer of automobile engines globally, with a turnout of 2.5 million a year. It is home to 8 major sports and premium car manufactures, 7 mainstream OEM's, 7 commercial vehicle manufactures, 9 bus and coach manufacturers, 6 design centres and 13 R&D centres. 4 out of every 5 cars manufactured in the UK are exported. In the financial year 2015-16 the UK automotive industry turnover was £71.6 billion, out of this £34.3 billion was exported contributing to 12% of UK's total export.

The UK invests £4 billion each year in automotive R&D. Co-investment in technological developments to be delivered by Industry led consortia, range from high risk incremental growth programmes to innovative cutting edge R&D, indicates that the UK is deeply committed to establishing itself as a global centre for promotion and development of low carbon propulsion systems.

I am sure that SIAT 2017 will provide the perfect ground for UK Automotive Companies to meet and form partnerships with Indian companies, paving the way for even more business between the United Kingdom and India.

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Department for International Trade

The Department for International Trade “DIT” brings together trade promotion and trade policy, supporting exporters and facilitating inward investment, allowing us to champion British and Northern Irish businesses better around the world.

DIT offers expertise and contacts through its extensive network of specialists in the UK, and in British embassies and other diplomatic offices around the world. We provide companies with the tools they require to be competitive on the world stage.

DIT in India:

DIT helps companies in Britain increase their competitiveness through overseas trade in India. We also offer professional, authoritative and personalised assistance to help companies in India locate and expand in the UK.

Exhibitors on the UK Pavilion: Stalls 136 – 141

Advanced Propulsion Centre UK

CMCL Innovations

Connectus Technologies London Ltd

Drive System Design

Dynamotive Ltd

Magnomatics Ltd

Millbrook Group

Ricardo Inc. Software

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Advanced Propulsion Centre UK

The Advanced Propulsion Centre (APC) exists to position the UK as a centre of excellence for low carbon propulsion development and production. It is a £1 billion, ten-year commitment between government and the automotive industry and offers grant funding for consortia through twice-yearly competitions.

The services provided by the APC enable collaborative projects which provide profitable growth and sustainable opportunities for the partners involved and builds the UK supply chain for innovative, low-carbon technologies.

The APC is based at the University of Warwick in the Midlands, and has created a Spoke Network charged with bringing academic and industrial research and development communities together to collaborate in all aspects of research, from fundamental science through to product industrialisation. The Spokes are designed to provide access to the best expertise and facilities the UK has to offer for each of the key strategic technologies for the automotive industry



CMCL Innovations

Computational Modelling Cambridge Ltd. (CMCL Innovations) is an award-winning technology company offering software products and technical services (consulting and training) to the automotive, chemical and energy industries for the development of low-emissions technologies.

The technical team at CMCL comprises experienced software developers, highly skilled scientists and engineers, with a combined experience of over 70 years in delivering commercially successful software solutions. SRM Engine Suite, the company's physico-chemical simulation toolkit for internal combustion engines is applied by the industry and the academic community to simulate and optimise fuels, combustion and emissions. Its Model Development Suite (MoDS) software is developed for domain-focused, advanced statistical analysis involving design of experiments (DoE), global sensitivity analysis, optimisation, surrogate model generation and parameter estimation.

CMCL Innovations continues to lead as well as participate in numerous collaborative projects, including: PEMs4Nano (PN emissions evaluation in GDI SI engines), ProtoDrive (Rapid concept design and analysis for HEVs); K2 (Fast response algorithms and real-world data coupling for non-road machines); ACER/CloudSME (SRM Engine Suite via cloud), and the APC ASCENT (Low CO₂ technologies for off-road applications).

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Connectus Technologies London Ltd

Connectus are an integrated systems provider specialising in solutions for the Automotive and Motor Insurance Industry sectors.

Connectus products and solutions enables OEM's, dealer networks, leasing and Insurances companies to stay connected to their client base offering new levels of customer experience and retention.

Connectus provide the very latest technologies in vehicle/fleet management, diagnostic data, accident/claims management, driver behaviour and customer connectivity.



Drive System Design

Drive System Design (DSD) specialises in the design, development and control of transmission and future driveline systems. The consultancy's staff have extensive experience working with vehicle manufacturers and Tier 1 suppliers around the world, designing new technologies and solving problems to make their products more competitive.

The engineering services offered reflect the entire life cycle of a product, from the strategic planning of future technical direction to solving customer problems arising with existing products, and everything in between. Through the experienced use of powerful simulation tools and a thorough background in manufacturing realities, DSD staff can rapidly produce workable solutions to the most difficult design challenges.

DSD's leading project management and technical skills enable the smooth delivery of challenging and innovative projects, as well as those with demanding timescales. DSD has worked extensively in the India auto sector, on a variety of vehicles from 2-wheelers to trucks, and is recognised as a world leading expert in driveline refinement, efficiency improvement and hybrid & electric vehicle transmissions.

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Dynamotive Ltd

Dynamotive is an ABB group company, specialising in the supply, upgrade and lifecycle support of chassis, engine, transmission and component test stands for the automotive, aerospace and renewables industries. Applications include NVH, EMC, climatic, emissions, performance, powertrain durability, test stands and facility control systems.

Operating on a global basis, Dynamotive is a full service provider offering installation, commissioning and customer training programs. We also offer a comprehensive maintenance and calibration service with a life cycle support program. This is complimented by a significant experience in medium to high power AC/DC drive systems and associated dynamometers, covering synchronous, asynchronous and permanent magnet machines from several kW to several MW.

Dynamotive delivers cost effective solutions using world class technologies.



Magnomatics Limited

Magnomatics is a high technology company that is developing MAGSPLIT®, a revolutionary new hybrid transmission for truck, bus and passenger cars. MAGSPLIT is a power-split continuously variable Dedicated Hybrid Transmission for HEV and PHEV, developed with powertrain innovators like Ford Motor Company and Volvo Group. OEM Powertrain modelling based on measured data has shown fuel economy improvements up to 35% are achievable thanks to MAGSPLIT's simplicity and efficiency maintaining the engine at peak efficiency.

Magnomatics are developing and manufacturing products for global industries based on its proprietary ground-breaking magnetic gear technology. Production gears are now in operation in critical down borehole oil and gas applications, replacing mechanical gearing systems for improved cost, service life and Total Cost of Ownership. The company is active in many market sectors, including hybrid and electric vehicles, renewables, marine propulsion, aerospace, rail, and oil & gas. Magnomatics have developed two products based on magnetic gears, the Pseudo Direct Drive PDD® and MAGSPLIT®. The PDD is a high-torque low-speed motor/generator highly suited to actuation, rail traction, marine propulsion and wind power.

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Millbrook Group

Millbrook Group provides vehicle test, validation and engineering services to customers in the automotive, transport, tyre, petrochemical, defence and security industries. It is independent and impartial in everything it does.

It has a range of test facilities for full vehicles, tyres and components. These include varied outdoor and indoor test tracks in the UK and Northern Finland, engine dynamometers, environmental chambers, portable emissions measurement systems (PEMS), crash laboratories including a state-of-the-art ServoSled, and advanced emissions chassis dynamometers.

Millbrook's employees are passionate about safety, customer service and technical excellence, making them ideal partners at any stage in the development and launch of the vehicles of tomorrow.



Ricardo Inc. Software

Ricardo Software has been delivering innovations in computer-aided engineering for more than 20 years. Our comprehensive suite of software tools provides analysis solutions for powertrain and vehicle development, from concept through to detailed design.

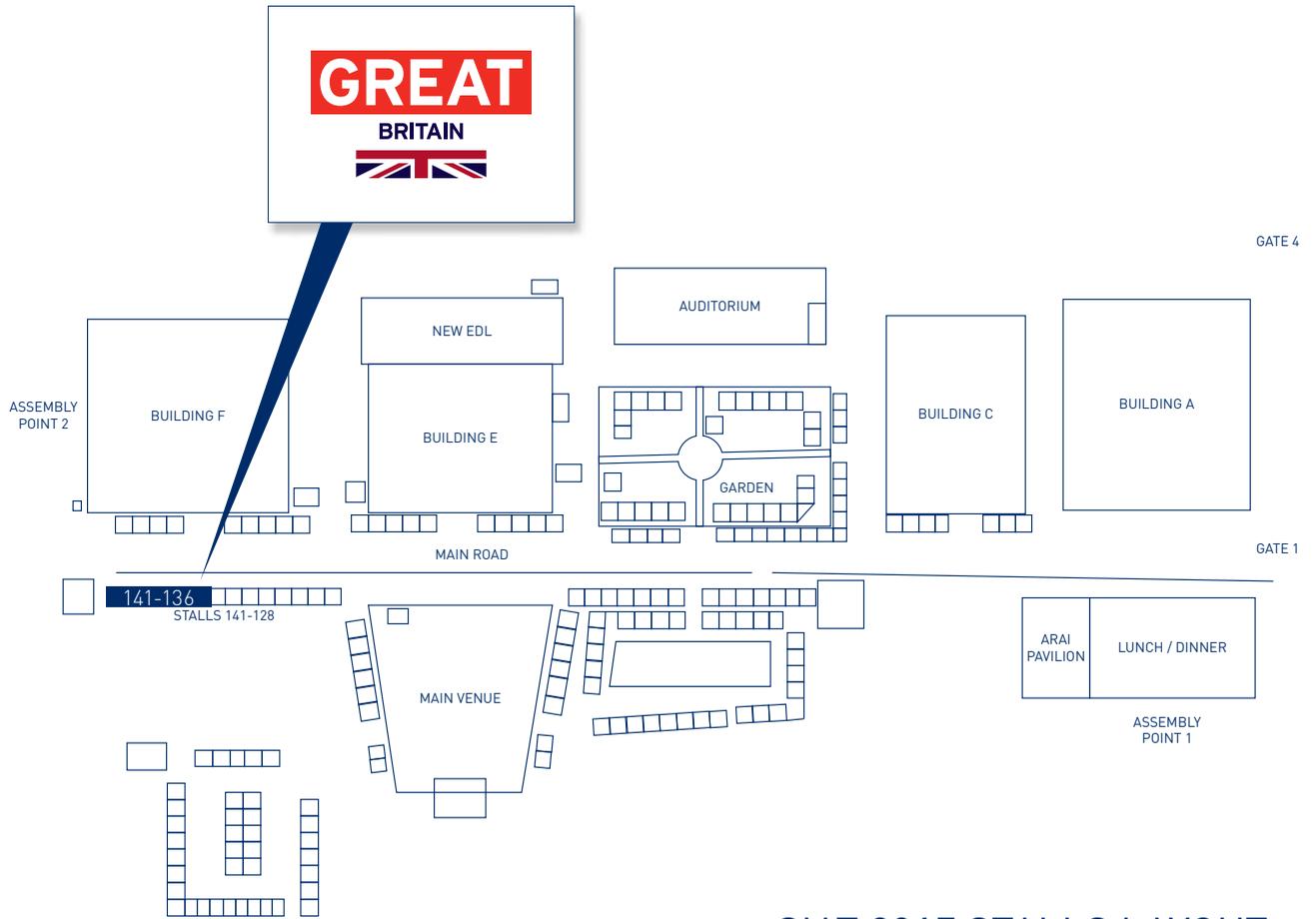
Ricardo Software's comprehensive suite of software products offer a wide range of design and analysis tools developed for industries ranging from automotive to heavy equipment, motorcycle, rail and marine. Our tool sets cover complete powertrains from single component analysis through system interactions including: fluid and mechanical dynamics to predict engine performance, durability, sound quality and overall control system design behaviour. In addition, our IGNITE tool provides complete-vehicle-performance and fuel-economy simulation.

With new features, capabilities and applications continually under development, Ricardo Software continues to benefit its licensees with verified models for the very latest technology. Close collaboration with our clients ensures that our software development is targeted to them producing accurate results and making meaningful design and development decisions much more quickly.

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EXHIBITION VENUE PLAN



ASSEMBLY
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SIAT 2017 STALLS LAYOUT



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