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interview - a bright new beginning

The 2017 season was another tough one for McLaren, as their revived Honda partnership again failed to deliver. As a result, that partnership is no more and from 2018 the Woking team will be powered by Renault. Given how good the MCL32 chassis was this year, it's a change that team principal Eric Boullier believes should put them very much back on a winning path.



8

meet this crazy new engine

Fixed compression ratio engines have been in existence throughout the 130-year history of the motor car. Throughout this time, other manufacturers have taken on the challenge of developing a variable compression ratio engine. Infinity will be the first to bring the technology to market, with an engine that continuously transforms according to driver behaviour.



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Future Boeing jets may have only one pilot in the cockpit	
The world's first solar fuels reactor that can run at night	
Is AI going to impact humanity more than fire and electricity?	
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Team USA used flexible fabrics to heat their jackets during the past Olympic Winter Games	
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The smart business model underlying Siemens' Smartron locomotives unites the benefits of a finished product with those of platform-tested technology.	
the car that runs on air	24
Combining a gasoline engine and hydraulics makes for an air car that is lighter and cheaper than gasoline-electrics.	
green light for printing copper	34
A new laser beam source operates with green rather than infrared light to additively manufacture components made of copper.	
sauber's title hopes	38
Will additive technology increase Sauber's 2018 title hopes?	
engineering in nature's style	40

technology - how tyre traction works

Your car's tyres are (arguably) the most important part of the vehicle. The tyres, after all, are what transfer the engine's energy to the pavement in a way so that the car can move forward. Tyres are able to do this because of traction. Traction is defined as "the ability of a wheel or tyre to hold the ground without sliding". This is particularly important when surfaces are slippery, like when driving on snow.



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travel - Thailand

Friendly and fun loving, cultured and historic, Thailand radiates a golden hue from its glittering temples and tropical beaches through to the ever-comforting Thai smile. For many, is the ultimate travel destination. A heady blend of modernity and tradition, Bangkok has something to offer for everyone.



38

technology

technical dictionary 26
Mechanical engineering

history 59
George Westinghouse was one of the most influential and fondly remembered engineers, inventors and businessman of all time. Without this man's labours, America and perhaps the world would be a very different place

history audio 64
The U.S. government first listed statistical data on automobiles in 1914. They showed 1.7 million licensed cars. And, how much all these new owners needed to know about the care and feeding of cars! A year later, McGraw-Hill published The Gasoline Automobile – a book on how to cope with these new machines. The first edition quickly raced through fourteen printings.

worldwide

topic 18
Time management is not very difficult as a concept, but it's surprisingly hard to do in practice. It requires the investment of a little time upfront to prioritise and organise yourself.

business partner 32
Following the easing of international sanctions against Iran in 2016, the Islamic nation signalled it would need a lot of foreign investment to modernise its infrastructure after a decade of isolation.

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