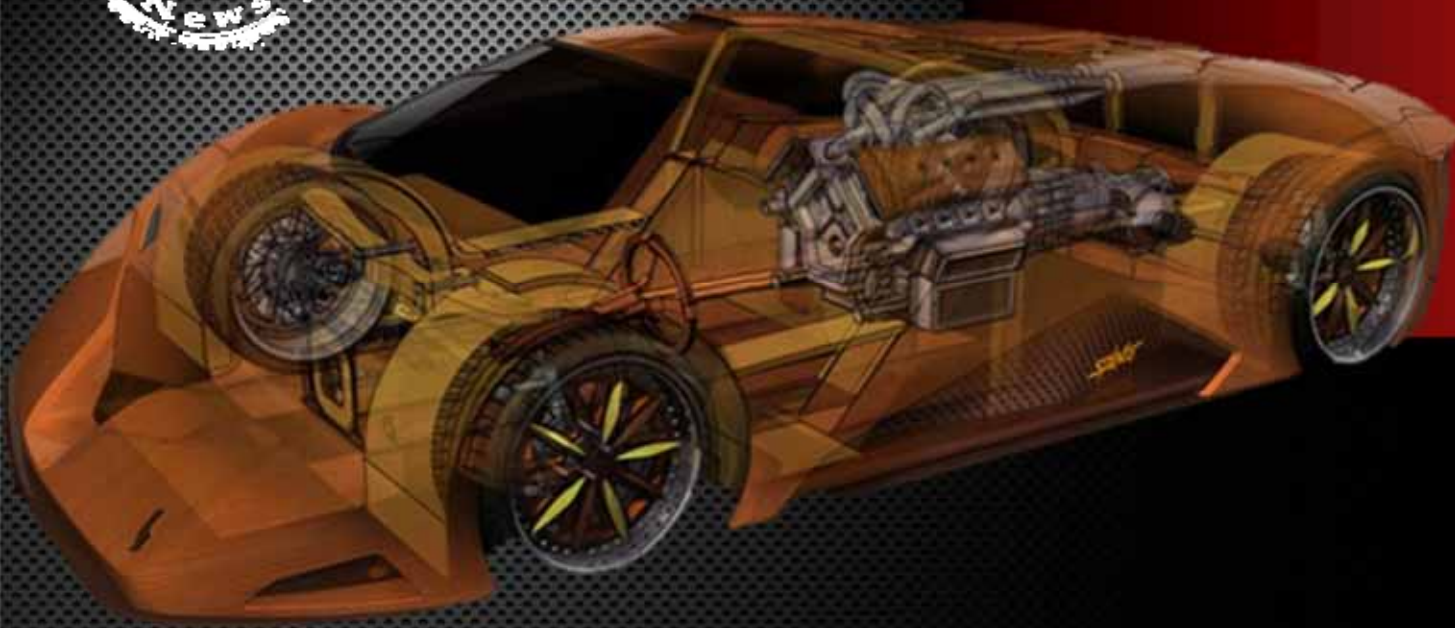




2014

MAY
EDITION

DAuto NEWS LETTER

Design engineers turn designs into reality. Without them, a great idea but nothing more than, well, a great idea.

Seat Ibiza Cupster Concept

The Seat Ibiza Cupster is characterized by the low, wrap-around windscreen, the shallow, triangular shaped DLO graphics and the complete absence of a top. All this results into a low, sporty stance, enhanced by the 18-inch wheels.



The basis is provided by the Ibiza Cupra, with its 132 kW / 180 PS TSI engine and DSG dual-clutch transmission.

While the body shell is largely the same as that of the series-production model up to the shoulder line, everything above has been specifically redesigned



Nissan Lannia Concept

The Lannia concept is the second model to be borne from Nissan's design center in China, which opened the new studio in 2013. The sedan follows the 2013 Friend-ME Concept and, like its predecessor, was jointly developed by the Nissan Design China in Beijing and the Nissan Global Design Center, and addresses the tastes and values of contemporary Chinese "Post-80s" generation, the "balinghou."



Lannia Concept, is a study of a sedan that evolves the design of the 2013 Friend-ME show car targeting young Chinese customers.



The design features signature trademarks of Nissan's current aesthetics, including the V-motion grille, boomerang headlamps, a distinctive kick-up pillar, as well as the "floating" roof.



BMW DesignworksUSA develops solar carport concept

BMW Group DesignworksUSA studio has developed a solar carport concept that matches the design language of the i8 and i3 models.



The solar carport designed by BMW Group DesignworksUSA combines high-grade technology for generating electricity from solar power with an innovative design that complements the BMW i models in the choice of materials, design and color.

Audi R8 LMX

Audi has revealed the R8 LMX, a limited edition model that features the world's first production application of laser lighting technology for the headlights high beams.



Each module comprises four high-power laser diodes. With a diameter of just 300 micrometers, these generate a blue laser beam with a wavelength of 450 nanometers. A phosphor converter transforms this into roadworthy white light with a color temperature of 5,500 Kelvin – ideal conditions for the human eye that enable the driver to recognize contrast more easily and help prevent fatigue.



The laser spot for the high beams increases the range substantially, and was the result of a collaboration between Audi engineers work and their racing colleagues. With the new laser high beams, one laser module per headlight generates a cone of light with twice the range of the all-LED headlight.

Nissan 2015 Murano

At the recent 2014 New York Auto Show Nissan has unveiled the third generation Murano, with a distinctive design derived from the Resonance concept car



Compared to the current model, the new Murano is longer and wider but slightly lower and features a drag coefficient of 0.31, improved by 16% over the outgoing model. This was also possible thanks to a number of aerodynamic-driven details such as the new side view mirrors, lower grille shutters and a rear bumper surfacing designed to direct airflow away from the vehicle. The front end features the current brand's signature face characterized by the V-Motion graphics and boomerang shaped headlights, available with LED lights and DRLs.



Nissan 2015 Murano

The cabin offers a lounge-like social space enhanced by the wide, low center console and features seats with NASA-inspired Zero Gravity design.



The IP features 7.0-inch display and the infotainment system is available with a 8.0-inch multi-touch control center display. The 2015 Murano will be assembled for the first time in the US (the previous two generations were produced in Japan), and will be exported from Mississippi to more than 100 markets around the world.

“ Aircraft wings that change their shape in flight can help to protect the environment ”

A top priority for any airline is to conserve as much fuel as possible – and this helps to protect the environment. The EU project SARISTU aims to reduce kerosene consumption by six percent, and integrating flexible landing devices into aircraft wings is one step towards that target. Researchers will be showcasing this concept alongside other prototypes at the ILA Berlin Air Show.



While birds are able to position their feathers to suit the airflow, aircraft wing components have so far only been rigid. As the name suggests, landing flaps at the trailing edge of the wing are extended for landing. This flap, too, is rigid, its movement being limited to rotation around an axis. This is set to change in the SARISTU project.

"Landing flaps should one day be able to adjust to the air flow and so enhance the aerodynamics of the aircraft,"

Viking Concept bike by Henrik Fisker

Danish custom bike builder Lauge Jensen has recently presented the Viking Concept, a design study of a V-twin powered bike penned by Henrik Fisker.



The Viking Concept is powered by a 45-degree V-twin producing 100hp, making the bike capable of more than 130mph, and is the first motorcycle of its type to comply with new Euro IV emissions regulations that come into effect in 2016. The engine, built in Wisconsin, USA, has been developed and tuned to achieve this goal without losing its trademark V-twin sound or soul. The company intends to build a bike based on the Viking Concept at higher volumes and with a lower price tag than the Great Dane.

Formula E to race on streets of Long Beach in 2015

The FIA Formula E Championship, the world's first fully-electric racing series, today announced that round seven of its inaugural season will be held on the iconic streets of Long Beach, California, USA.



The Long Beach ePrix, as it will be titled, will take place on April 4 2015 and will form one of 10 races – and one of two in the US alongside Miami – taking place in city-centres across the globe. Organisers also confirmed that the Long Beach race will be one of two that forms part of the championship's Legacy Programme giving free access to fans with a focus on attracting school and university students from the nearby area to appeal to a new generation of motorsport fans and promote the electric vehicle industry.

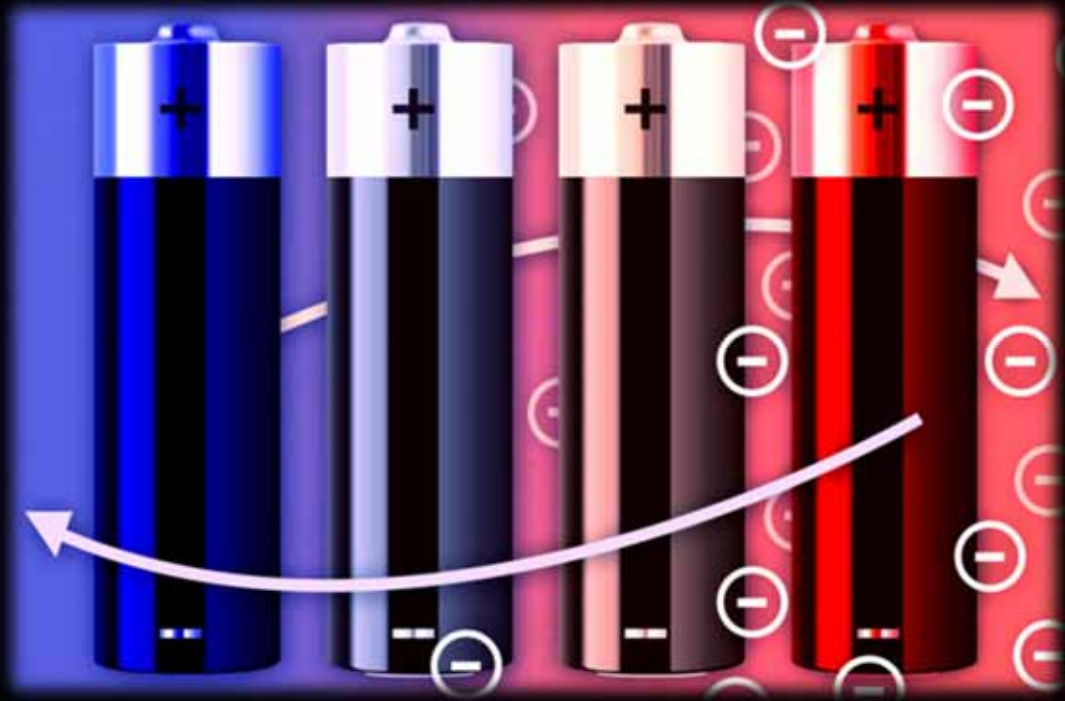
Formula E is the **FIA's (Fédération Internationale de l'Automobile)** new open-wheel championship using fully-electric race cars capable of speeds in excess of 150mph.

A new way to harness waste heat

Electrochemical approach has potential to efficiently turn low-grade heat to electricity

Scientists have found a new alternative for low-temperature waste-heat conversion into electricity.

Vast amounts of excess heat are generated by industrial processes and by electric power plants; researchers around the world have spent decades seeking ways to harness some of this wasted energy. Most such efforts have focused on thermoelectric devices, solid-state materials that can produce electricity from a temperature gradient, but the efficiency of such devices is limited by the availability of materials.



Now researchers have found a new alternative for low-temperature waste-heat conversion into electricity -- that is, in cases where temperature differences are less than 100 degrees Celsius.

Toyota developing chips to boost hybrid efficiency up to 10%

Toyota says new silicon carbide semiconductors enable the automaker to build much smaller and more efficient power control units in its hybrid vehicles.

The world's biggest maker of gasoline-electric cars said it has already achieved a 5 percent improvement in fuel efficiency in test vehicles and aims to commercialize the technology around 2020.

The advancement comes in the semiconductors that manage the flow of electricity through the power control unit that integrates a hybrid vehicle's battery, motor and generator.

The new semiconductors eat up only a tenth of the energy of today's chips and enable the PCU to be 80 percent smaller, Toyota engineers said today at a briefing.

The technology has the potential to deliver 10 percent better fuel efficiency because less energy is lost when the battery powers the car's electric motor or when the regenerative brakes recharge the battery.



Volvo's Hidden Facts



Volvo's symbol is about safety and passenger protection, Volvo's name is inspired from the Latin word "volvere" which translates into "to roll". The badge however is the old symbol of iron but, according to some people, it also tries to transmit Volvo's "attraction" for safety technologies, which are often described to be as durable as iron.



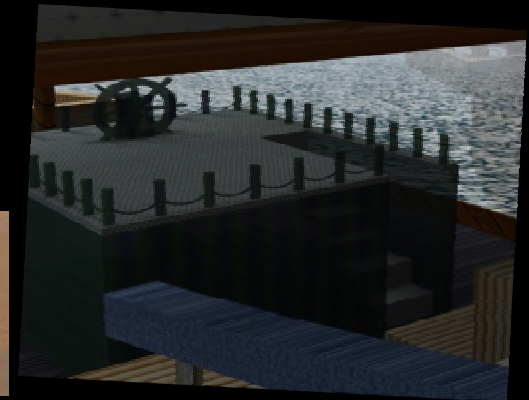
Just like the name, the Volvo logo also has ancient roots. The logo was designed by the legendary Swedish calligrapher and typographer Karl-Erik Forsberg in the 1950s. It depicts the pre-historic symbol of Iron, a circle with a diagonally upwards pointed arrow directing towards the right. The primitive symbol is also a representation of "Mars, the God of War", as well as the symbol for "Man".

STUDENT'S CORNER

News from DAuto Family



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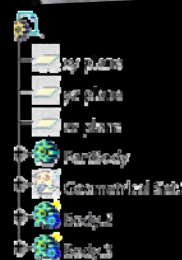
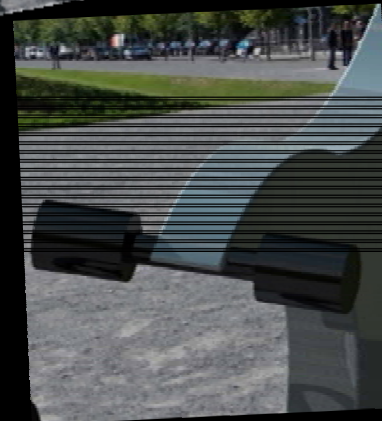
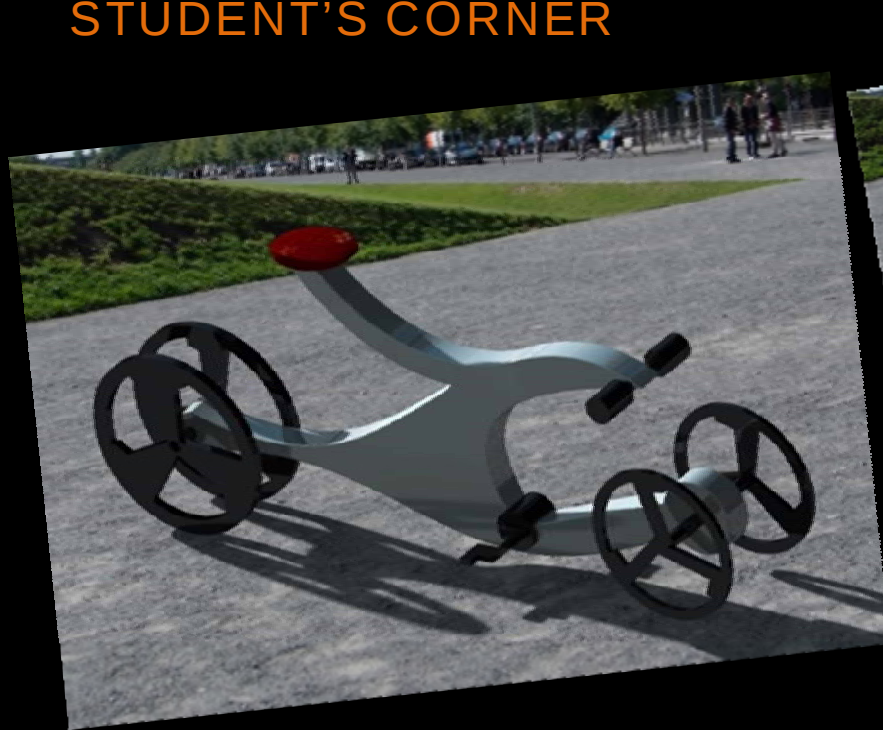


Students of DAuto CAD School during the period of Software Training on CATIA V5.

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This Racing Car and imagined contrive have been prepared and envisioned by Pradeep Haldar (BIRTS, Bhopal) students of DAuto CAD School during the period of Software Training on CATIA V5.

Students of DAuto CAD School during the period of Software Training on CATIA V5.

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