

# Hong Kong Developed 'mycar'

## 港產電動車mycar

PolyU and EuAuto Technology Limited launched mycar, the first home-grown electric vehicle, in Hong Kong in October.

The car has obtained the World Manufacturer Identification code earlier and is fully compliant with European standards. It went on sale in the UK, France, Italy, Austria and Denmark in 2009.

PolyU technologies have contributed to the development of mycar and its body was designed by renowned Italian car designer Giorgetto Giugiaro. The car has met the roadworthiness requirements stipulated by the HKSAR Government's Transport Department and has been granted the vehicle type-approval as a private car.

The car's NEV version is sold in Hong Kong which can be driven on roads with speed limits of up to 50 km/h. It can travel 110 km on flat surfaces, reaching maximum speed of 64 km/h. After that, it can be fully recharged in six to eight hours through regular household socket. After travelling 20 km, it takes only 1.5 hour to fully recharge.

The car's lithium battery powered and upgraded versions will be available in

Hong Kong in early 2010 with significant improvements in terms of mileage and speed to meet the expectations of Hong Kong's Eco-car drivers.

Hong Kong's Innovation and Technology Commission has granted HK\$2 million for further research and development on mycar.

今年十月，理大及EuAuto Technology Limited攜手研發的環保電動車mycar在香港正式公開發售。

mycar於今年早前取得歐洲認證，並在英國、法國、意大利、奧地利、丹麥等地陸續開售。

理大的科研技術促成mycar的誕生，而車身外形則由著名的意大利汽車設計大師喬治亞羅 (Giorgetto Giugiaro) 設計。最近 mycar更通過了香港特區政府運輸署的審核及安全檢測，順利取得「類型審核」(Type Approval)，獲准正式在香港行走及銷售。

現時mycar在香港推出市場的是NEV版本，暫時只可在本港時速限制五十公里或以下的道路上行駛。它最高時速為64公里，充電後可在平路上行走達一百一十公里。該車只需利用一般家用電插座充電，由零到充滿電量一般需六至八個小時，如行走二十公里後，只需一個半小時便可將電量充滿。

明年初，mycar將推出鋰電版及加強版，在時速及距程方面會相應提升，可以滿足香港環保車主的要求。

香港創新科技署撥款二百萬資助mycar進一步的研發工作。◆



'mycar' is available in many different colours. mycar備有多種顏色以供選擇。



President Prof. Timothy W. Tong drives the Hon. John Tsang Chun-wah around the University campus in mycar.

校長唐偉章教授親自駕駛mycar接載財政司司長曾俊華先生圍繞理大校園行走。



The Hon. John Tsang Chun-wah, Financial Secretary of the HKSAR Government (centre), Prof. Timothy W. Tong, President of PolyU (left), and Mr Peter Sun, Chairman of EuAuto Technology Limited, officiate at the event.

香港特別行政區財政司司長曾俊華先生(中)、理大校長唐偉章教授(左)與EuAuto Technology Limited 主席孫國華先生(右)為環保電動車mycar新車發布會主持開幕儀式。

# New Bollard System for Streets

## 嶄新組合式欄杆



Working with officials of Hong Kong's Highways Department, Prof. Michael Siu (in the above picture), leader of the University's Public Design Lab, has invented a new bollard system, FlexiBOL®, resulting in a breakthrough in the use of public space.

Equipped with specially-designed interlocking components and mounting mechanism, the FlexiBOL® can be set up and dismantled much faster than the traditional bollard, thus allowing greater flexibility in the use of public space. A walkway can be quickly converted into a street market or a public place for social, cultural and festival activities by dismantling FlexiBOL®'s locks and bollards. It can also be erected as barrier between walkways and roads with heavy traffic.

FlexiBOL®'s innovative design fits well with the urban environment of densely populated cities like Hong Kong. It also overcomes the limitations of existing vertical bollards, which are difficult to fix in the shallow-paved roads and walkways with large number of utility installations underneath.

The system is being tested by the Highways Department and has already been installed along the congested Hing

Fat Street in Causeway Bay. Authorities in Beijing and Tianjin are considering large-scale use of the system in central business districts and coastal areas.

Prof. Siu has registered 10 patents for FlexiBOL® and won several overseas awards, including the Japan Intellectual Property Association Award for the Best Invention in Industrial Design, a Gold Medal at Malaysia's 20th International Invention, Innovation & Technology Exhibition and the Double Gold Award from the British Inventors Society.

理大設計學院公共設計室主任邵健偉教授(見上圖)發明了一套名為FlexiBOL®的多用途組合式欄杆,使公共空間的應用取得重大的突破,有關研究是邵教授與香港特區政府路政署聯合進行的。

FlexiBOL®有一個設計獨特的連扣配件和裝置程式,較傳統的樁柱及欄杆容易裝拆,因此可以為公共空間的運用提供更大的彈性。FlexiBOL®組件可在短時間內輕易拆卸,方便將行人路瞬間改成為行人專用區、路邊市場或其他公共空間以舉辦社區、文化及慶祝活動;反之, FlexiBOL®亦可輕易豎立或互相連接,成為行人路與車輛之間的安全屏障。

FlexiBOL®的創新設計尤其適用於人煙稠密的城市如香港。它也克服了現時沿用的垂直插入式欄柱的限制,因為後者較難安裝於地底滿布喉管和其他公共設施的淺窄路面。



路政署現已將組件安裝於銅鑼灣興發街作測試用途。另外,北京及天津市政府正研究將該發明廣泛應用於市中心商業區和海濱區。

邵教授已就是項發明取得十項專利註冊及多個海外獎項,包括日本知識產權協會頒授的「最佳工業設計大獎」、在馬來西亞舉行的第二十屆國際發明、創新及科技展中榮獲金獎、以及於去年奪得英國發明家協會的雙金獎。◆