

## Tomorrow's World 明日世界

The Chamber organised a site visit to the Hong Kong University of Science and Technology on April 28 to get a sneak peak into the latest technologies that have the potential to redefine the industrial and logistics sectors.

These will make our lives and businesses more efficient, and greener, such as PU-PA-based waterborne coatings. Presently, most coatings depend on toxic solvents to be applied to surfaces, but the university's Centre for Green Products aims to replace solvents with waterborne products. These also include protective coatings, as well as bio-

logical coatings that can be used on electrodes to treat waste water.

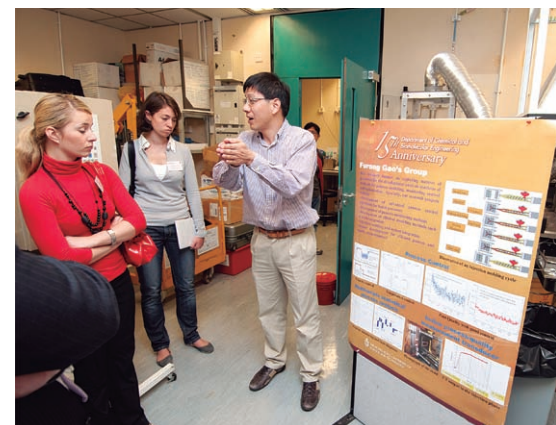
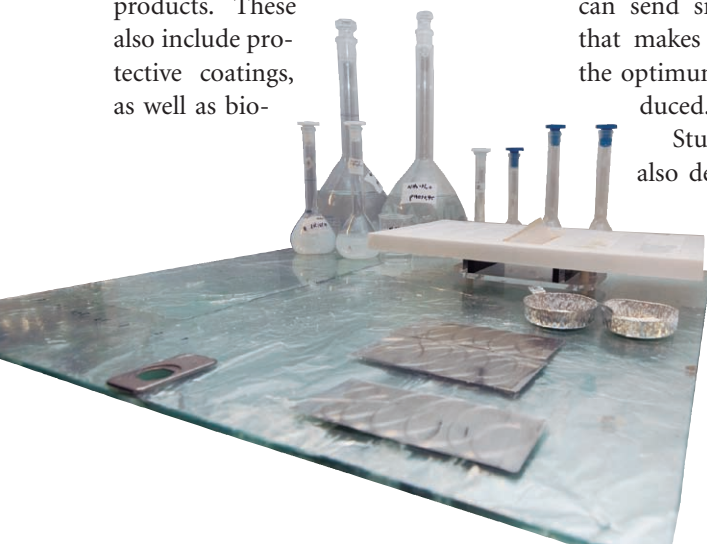
Another project that members examined involved using software to raise the quality of products produced in old injection-moulding machines, which will also reduce wastage. Factories using Chinese machines to produce products cannot compete with products using Japanese or German injection-moulding equipment, which are often beyond factory owners' budgets. To solve this problem, a sensor placed in older equipment can send signals to a control system that makes minute changes to ensure the optimum quality of each item produced.

Students and researchers were also developing RFID testing and benchmarking technologies to facilitate troubleshooting and problem identification.

Besides being greener, new technologies will also be smarter. Drugs housed in micro spheres will be

able to automatically deliver doses to certain areas of the body at certain times. Micro-fluids, when charged with a low electrical current, become a simple, yet powerful hydraulics system. And flexible displays will redefine how we view everything from the daily paper, to books to television. Tomorrow's world looks to be a better place. 🌸

For more information and opportunities for technology transfer, visit [www.ust.hk/eng/research](http://www.ust.hk/eng/research)





The Chamber examined applications for advanced materials & logistics technologies being developed at the Hong Kong University of Science and Technology

總商會參觀香港科技大學開發的先進物料及物流技術應用

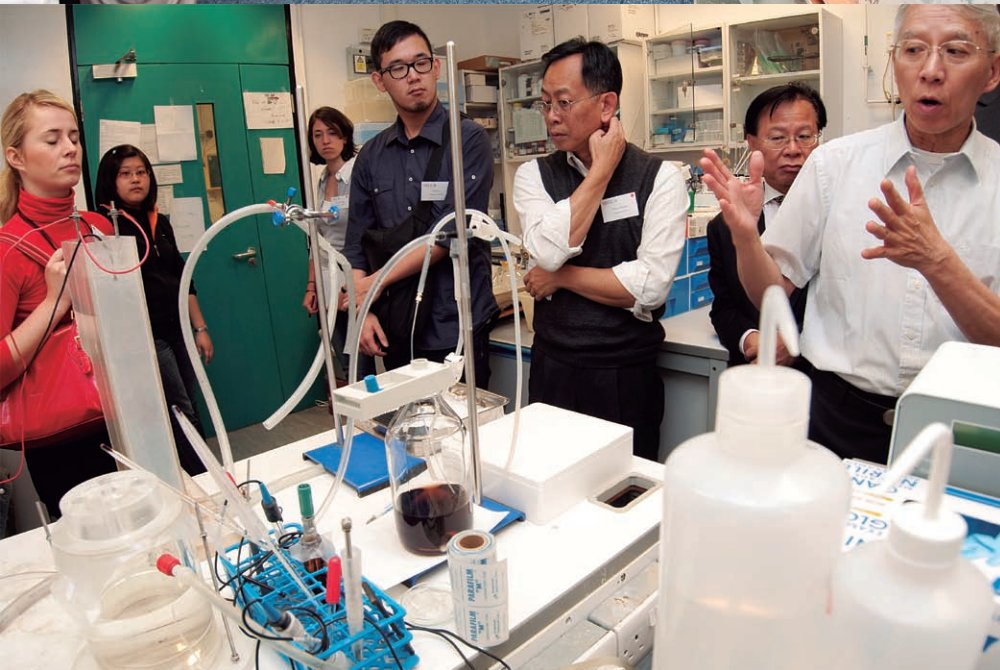
**本**會於4月28日率團參觀香港科技大學，一睹有潛力把工業和物流界重新定義的最新技術。

聚氨酯/聚酰胺複合水性塗料等一類最新產品，將會使我們的生活和業務變得更有效、更環保。現時，大部分的塗料都是以有毒的溶劑塗於物體表面，但科大的綠色產品研究中心卻致力以水性產品取代溶劑，還包括保護塗料及可用於電極上以處理污水的生物塗料。

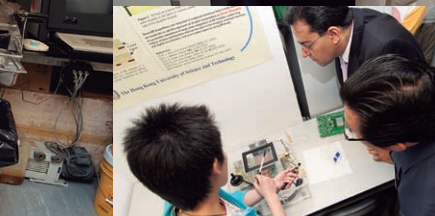
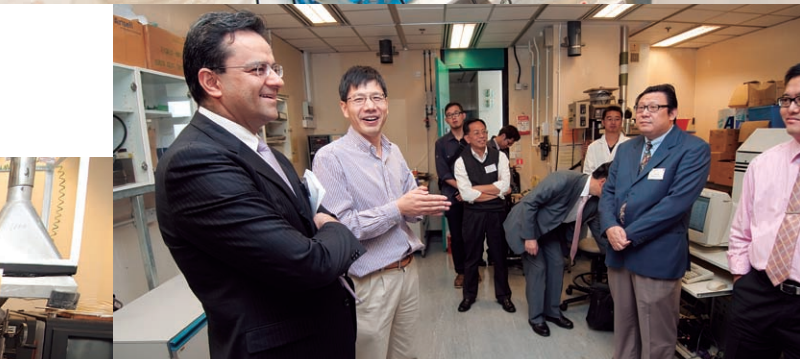
會員也有機會了解企業如何利用軟件為舊式注塑機所生產的產品提升質素，同時減少浪費。利用中國製機器製造的產品比不上日本或德國注塑設備所製造的產品，但廠商往往未能負擔有關儀器。為解決這問題，裝於舊式機器內的感應器會向控制系統發出訊號，指示系統作出精密的改動，以確保每件產品達到優良品質。

該校的學生和研員亦正研發無線射頻識別測試和評級技術，以促進疑難排解和問題識別。

新技術除了更環保外，也會更加智能化。例如，裝載於微囊內的藥物可在指定時間自動輸送到身體的某些部位。此外，當微流體接上低電流，就會成為一個簡單而強勁的水力系統。彈性顯示器亦將徹底改變我們看報紙、書本甚至電視的模式。明日世界看來會更加美好。✿



有關詳情及技術轉移的商機，請瀏覽[www.ust.hk/eng/research](http://www.ust.hk/eng/research)



Dr Cliff C K Chan (2nd from right), Chairman of the Chamber's Industry & Technology Committee, presents members of HKUST's faculty with a small memento to thank them for showing members around the research labs.

本會工業及科技委員會主席陳作基博士（右二）向科大代表致送紀念品，感謝他們為會員介紹實驗室內的各種設施。

