

類金剛石碳 (DLC) 塗層沉積技術研討會 Diamond-Like Carbon Coating Deposition Technology Seminar

日期 Date: 12 May 2017 (Friday)
2017 年 5 月 12 日 (星期五)
時間 Time: 2 pm – 4 pm
下午 2 時至 4 時
地點 Venue: Room 120, HKPC Building,
78 Tat Chee Avenue, Kowloon, Hong Kong
香港九龍塘達之路 78 號生產力大樓 120 號室

費用全免
Free of Charge
人數: 30 人
Target number of Audience: 30

Background:

The industry of automotive parts in Hong Kong and the Mainland China is posing increasing demand in strengthening tribological performance of a diverse spectrum of products in terms of efficiency and sustainability in order to drive the export of locally manufactured vehicles to markets in Europe and the US, as these markets advocate stringent requirements in curbing the carbon emission of imported vehicles. Friction between neighboring engine parts constitutes to significant causes of inefficient fuel consumption and carbon dioxide (CO₂) emission in automotive engines with percentage frictional losses at up to 40%.

An effective solution of this problem is to deposit diamond-like carbon (DLC) tribological coating, the superior properties of DLC coating could significantly enhance the efficiency of the automotive engines and reduce corresponding carbon emission.

背景:

在香港及中國內地汽車零部件產業為推動本地生產的汽車市場的出口在歐洲和美國，現正不斷提高對汽車零部件產品在效率和可持續性方面的要求。當中尤其針對產品之摩擦學性能，以應付歐美市場對進口車輛的碳排放的日益提升的嚴格要求。汽車發動機部件之間的摩擦構成低效的燃料消耗，而由汽車發動機所排放的二氧化碳中則有高達40%歸因於摩擦損失。此項目研發的耐磨損性類金剛石碳 (DLC) 塗層沉積於發動機部件表面則能有效解決此問題。而 DLC 塗層的優異的性能顯著提高汽車發動機的效率，並減少相應的碳排放。



資助單位
Funding Organization



創新科技署
Innovation and
Technology Commission

研發中心
R&D Centre



Automotive Parts and Accessory Systems R & D Centre
汽車零部件研究及發展中心

主辦機構
Organizer



Hong Kong Productivity Council
香港生產力促進局

協辦機構
Co-Organizer



香港表面處理學會
Hong Kong Surface Finishing Society

詳細內容 Seminar Programme

時間 Time	程序 Programme
14:00 – 14:15	接待及登記 Registration
14:15 – 14:45	介紹類金剛石碳 (DLC) 塗層沉積技術及其用途 Introduction of DLC Coating Deposition Technology & Applications 盧偉賢博士 (高級顧問) 香港生產力促進局 Dr. Wai Yin LO (Senior Consultant) Hong Kong Productivity Council
14:45-15:30	利用結合物理氣相沉積 (PVD) 和等離子體增強化學氣相沉積 (PECVD) 技術製造高硬度的類金剛石碳 (DLC) 塗層於汽車零部件的應用 High Hardness DLC Tribological Coating by combination of PVD and PECVD Technology in Automotive Parts Applications 易敏龍先生 (工程師) 香港生產力促進局 Mr. Man Lung YICK (Engineer) Hong Kong Productivity Council
15:30-16:00	參觀類金剛石碳 (DLC) 塗層設備及塗層樣品 Visit the DLC Coating Equipment and Coating Samples

備註：主辦機構保留權利可更改調動論壇題目、內容及講者而不須先行通知。
Note: The organizer reserves the right to alter the topic / content / speaker of the forum programme without prior notice.

免責聲明 Disclaimer

項目標題為“類金剛石碳 (DLC) 塗層沉積技術研討會”是由香港生產力促進局主辦。「在此刊物上 / 活動內 (或項目小組成員) 表達的任何意見、研究成果、結論或建議，並不代表香港特別行政區政府、創新科技署、創新及科技基金的創新及科技支援計劃評審委員會的觀點。」

The project titled “Diamond-Like Carbon Coating Deposition Technology Seminar” is organized by Hong Kong Productivity Council. Any opinions, findings, conclusions or recommendations expressed in this material/event (or by members of the project team) do not reflect the views of the Government of Hong Kong Special Administrative Region, the Innovation and Technology Commission or the Vetting Committee of the Innovation and Technology Support Programme of the Innovation and Technology Fund.

資助單位
Funding Organization



研發中心
R&D Centre



主辦機構
Organizer



協辦機構
Co-Organizer



Enrollment Form

報名表

Please send the completed enrollment form to candycheng@hkpc.org for reservation.

請填妥報名表格傳送到candycheng@hkpc.org,以便預留名額

Successful applicants will be notified by email. 成功申請者將收到電郵通知。

類金剛石碳 (DLC) 塗層沉積技術研討會
2017年5月12日 (星期五)

Enquiry 查詢:

Ms Candy Cheng (鄭小姐)

Tel: (+852) 2788 6165

Email: candycheng@hkpc.org

Mr Eddie Poon (潘先生)

Tel: (+852) 2788 6175

Email: eddiepoon@hkpc.org

Please complete this form in BLOCK LETTERS

申請者資料 Applicant Info:

中文全名 Chinese Name:	英文全名 English Full Name:	職位 Position:	電郵 Email:
1 _____ (先生/小姐/太太/女士*)	_____ (Mr / Miss / Mrs / Ms*)	_____	_____
2 _____ (先生/小姐/太太/女士*)	_____ (Mr / Miss / Mrs / Ms*)	_____	_____
3 _____ (先生/小姐/太太/女士*)	_____ (Mr / Miss / Mrs / Ms*)	_____	_____
聯絡人姓名 Contact Person:	聯絡電話 Contact Number:	傳真 Fax:	
聯絡電郵地址 Contact Email:			
公司名稱 Company Name:			
公司地址 Company Address:			

聲明 Declaration :

本人聲明在此報名表格及隨附文件所載的資料，依本人所知均屬完整真實。本人已細閱並接受報名表內的所有條款及細則。

I declare that all information provided in this enrolment form and the accompanying documents are, to the best of my knowledge, true, accurate and complete. I have read and accepted all the terms and conditions of this enrolment form.

本人反對香港生產力促進局使用本人的個人資料，包括但不限於姓名、年齡、性別、電話號碼、傳真號碼、職位、會員身份、繳費資料包括信用卡資料（如適用）、學術及專業資格、通訊地址及電郵地址（“個人資料”）於推介該局最新發展、工業支援服務、顧問服務、培訓課程及相關的活動及其他由生產力局的推廣活動的用途。I object to the proposed use of my personal data including, without limitation, name, age, gender, phone number, fax number, job title, member status, payment details including credit card information (where applicable), academic and professional qualification, correspondence address and email address (“Personal Data”) for the purpose of sending me information relating to HKPC's latest developments, industry support services, consultancy services, training courses and related events, and other marketing activities as may be organized by HKPC.

申請者簽名

Applicant' s Signature: 1. _____

日期

Date: _____

申請者簽名

Applicant' s Signature: 2. _____

日期

Date: _____

申請者簽名

Applicant' s Signature: 3. _____

日期

Date: _____

條款及細則 Terms and Conditions:

1. 申請者可提名他人代替其本人出席研討會先須得本局同意。

An applicant may, subject to approval from HKPC, nominate a person to attend the seminar on his/her behalf.

2. 所收集的個人資料將會作入學申請、登記、學術、行政、研究、統計及市場分析及用於推介本局最新發展、工業支援服務、顧問服務、活動和培訓課程的用途。個人資料會嚴格保密處理。除非獲得閣下的同意，本局不會將個人資料轉移予第三者。本局已制定收集、使用及保留個人資料的政策，於報名處供索閱，閣下亦可向本局個人資料管理主任查詢。

Personal Data collected will be used for processing your application for admission, registration, academic, administrative, research and statistical purposes and will also be used for marketing purposes, specifically for the purpose of sending you information relating to HKPC's latest developments, industry support services, consultancy services, events and training courses. Personal Data will be treated in strict confidence. Unless otherwise agreed by you, Personal Data will not be transferred to any third parties. HKPC implements a policy governing the collection, use and retention of Personal Data, which is made available at the enrolment counter. You may also contact Personal Data Controlling Officer of HKPC for further details.

3. 香港生產力促進局保留在任何情況下及以任何原因拒絕任何入學申請的權利。

HKPC reserves the right to reject any application in any circumstances and for whatever reasons.

4. 香港生產力促進局保留在任何情況下更改研討會地點、日期及時間的權利。

HKPC reserves the right to change the contents, venue and / or time as necessary.

5. 颱風及黑雨警告：如活動時間是在早上(09:00-13:00)、下午(14:00-17:00)或晚間(18:30-22:00)，將在下列情況下取消：(一)八號或以上颱風訊號或黑色暴雨警告訊號在早上 6:00、11:00 或下午 16:00 仍然懸掛；或(二)香港天文台在早上 6:00、11:00 或下午 4:00 或之後，宣佈將懸掛八號或以上颱風訊號或黑色暴雨警告訊號。本局將盡早通知學員活動的日期及時間。

HKPC reserves the right to change the contents, venue and / or time as necessary. Seminars in the morning, afternoon or evening will be cancelled if typhoon signal No. 8 or above OR black rainstorm warning is still hoisted after (or is announced by the Hong Kong Observatory to be hoisted at/after) 6:00 a.m., 11:00 a.m. and 4:00 p.m. respectively. Participants will be notified when the seminar will be made up as soon as possible.

6. 以上“條款及細則”內容均以本局單張及網頁公佈之最後更新版本為依歸。

These terms and conditions are subject to revisions as may be set out in the course pamphlets and the latest updates in the Institute's website.