

Organiser
主辦機構



Sponsor & Supporting Organisation
贊助及支持機構

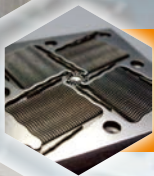


創新科技署
Innovation and
Technology Commission

International Conference on "Exploring Manufacturing Opportunities of Value-Added Products with Advanced Machining & Surface Structuring Technologies for New Materials" 「新材料先進機械加工及精細表面構建技術 開拓製造業新商機」國際會議



Laser Hardening HRC60
(Wear resistant)
激光淬火HRC60 (耐磨)



Ultra Precision ECM Ra0.1
電化學加工 Ra0.1



Surface Texturing
(Anti-scratch)
表面紋理化 (防刮)



Hybrid Machining
混合機械加工



Hybrid Ultrasonic Milling
(for ceramics)
超聲波銑削混合加工 (陶瓷)

Date and time
日期及時間

15 June 2020
2020年6月15日 09:30-18:00

Venue
地點

Online Webinar & HKPC Building
Live Broadcast
網絡研討會及生產力大樓現場直播



Medium
語言

English (with Cantonese interpretation)
& Putonghua
英語 (粵語傳譯) 及普通話

Fee
費用

HK\$180

Target Audience
目標觀眾

Those with interest in Machining &
Surface Structuring Technologies
對機械加工及表面構建技術有興趣之
人士

Introduction 簡介

In the face of severe global competition, the profit margin of traditional metal products manufacturing with materials such as steel and aluminum is decreasing. In the meantime, most traditional manufacturing methods can no longer meet the requirement of value-added products nowadays in terms of functionality, microstructures, surface characteristics, etc. Novel technologies not only achieving much higher precision, functionality, surface smoothness, advanced machining and surface structuring technologies, but also enable processing of new materials such as hardened alloys, ceramics, glass fiber, and composite materials with well-enhanced strength, thermal properties, wear resistance and other desirable functional features, for example anti-bacteria, water repelling and lightweight. Hong Kong Productivity Council (HKPC) is to present a series of conference and seminars to disseminate the applications of new machining & surface structuring technologies, as well as the corresponding investment, operation costs and new business opportunities to the local industries.

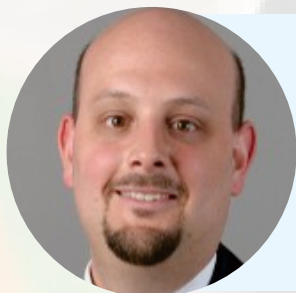
全球競爭激烈，鋼材和鋁材等傳統金屬加工利潤空間不斷收窄。同時，傳統製造方法亦未能滿足高增值產品在功能、微結構、表面特性等各方面的要求。新穎技術除了可以提高金屬製品的精度、功能和表面平滑度之外，更能處理高硬度合金、陶瓷、玻璃纖維及複合材料等新物料，進一步提高物料的強度、傳熱隔熱、耐磨和其他特性（例如防菌、疏水及輕量化）。香港生產力促進局（生產力局）將舉辦一連串活動國際會議及技術研討會，向本地業界介紹先進機械加工及表面構建技術的應用，以及相關投資要點、運作成本和新商機。

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Speakers 講者



Dr Kristian Arntz

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孔邁迪博士

德國通快集團技術支援總監



Prof Tuan Wei-Tsing

Distinguished Professor,
Department of Material Science and Engineering, Taiwan University

段維新教授

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Dr Liu Shao-Jun

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Powder Metallurgy Research Institute, Central South University, China

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中國中南大學粉末冶金研究院教授



Mr Sebastain Guggenmos

Managing Director, KERN Microtechnik, Germany

塞巴斯蒂安·古根莫斯先生

德國科恩精密技術公司董事總經理

Itinerary 活動流程

Time 時間	Rundown 流程	GOH / Speaker 主禮嘉賓 / 講者
09:30-10:00	Webinar & On-site Registration 網上及現場登記	
10:00-10:05	Grand Opening 開幕式	Representative of Hong Kong Productivity Council 香港生產力促進局代表
10:05-10:10	Souvenir Presentation & Photo Taking 頒贈感謝狀及合影	Supporting Organization Representatives & Guest-of-Honor 支持機構代表及主禮嘉賓
10:10-10:25	Upcoming Seminars Promo 未來技術研討會預告	
10:25-10:40	Tea Break 小休	
10:40-11:35	Technological Development and Applications on Alloys and Ceramics Materials and Surface Structuring Technologies 合金和陶瓷材料表面構建技術 發展與應用	Dr Liu Shao-Jun Professor, Powder Metallurgy Research Institute, Central South University, China 劉紹軍博士 中國中南大學粉末冶金研究院教授
11:35-12:30	The Business Opportunities in Ceramics and Composite Components Manufacturing and Effective Processing Technologies 陶瓷和複合材料部件製造 及有效加工技術商機	Prof Tuan Wei-Hsing Distinguished Professor, Department of Material Science and Engineering, Taiwan University 段維新教授 台灣大學材料科學與工程學系 暨研究所特聘教授
12:30-14:00	Lunch Break (Self-arrange) 午休（自行安排）	
14:00-15:00	Overview on Advanced Machining and Surface Structuring Technologies Development, Applications and New Business Opportunities 先進加工和表面構建技術開發、 應用和商機	Dr Kristian Arntz Head of Department, Non-Conventional Manufacturing Processes & Technology Integration, Fraunhofer Institute of Production Technology, Germany 克里斯蒂安·阿恩茨博士 德國弗勞恩霍夫生產技術研究院非傳統 製造工藝與技術部主管

Time 時間	Rundown 流程	GOH / Speaker 主禮嘉賓 / 講者
15:00-15:55	The Effective Fabrication of Value-added Products Made by New Materials with Hybrid Machining 新材料混合加工 - 有效製造增值產品	Mr Marvin Trutnau Head of AMEC Shanghai, DMG MORI China, Germany 馬文先生 德國德馬吉森精機公司中國分區 上海先進材料卓越中心主管
15:55-16:10	Tea Break 小休	
16:10-17:05	Engineering Parts Fabrication, Maintenance and Surface Treatment with Advanced Laser Processing Technologies 先進激光加工技術：工程部件製造、保養和表面處理	Dr Matthias Koitzsch Director of Technical Support Trumpf, Germany 孔邁迪博士 德國通快集團技術支援總監
17:05-18:00	Critical Components Manufacturing with Micro Machining and Nano Processing Technologies 應用微加工和納米處理技術製造關鍵零件	Mr Sebastian Guggenmos, Managing Director, KERN Microtechnik, Germany 塞巴斯蒂安·古根莫斯先生 德國科恩精密技術公司董事總經理
18:00	End of Conference 會議結束	

Enrolment method 報名方法

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http://u.hkpc.org/int_con_advmach



Supporting Organisations
支持機構



香港創新科技及製造業聯合總會

Hong Kong Federation of Innovative Technologies
and Manufacturing Industries



香港汽車零部件工業協會

Hong Kong Auto Parts
Industry Association



香港鑄造業總會

Hong Kong Foundry Association



香港模具協會

Hong Kong Mould & Die Council



香港金屬製造業協會

The Hong Kong Metals Manufacturers Association



香港模具及產品科技協會
Hong Kong Mould and Product Technology Association



香港表面處理學會

Hong Kong Surface Finishing Society

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