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# 毋忘初衷 堅守信念

Uphold our Values, Persist in our Belief







## 機電工程營運基金邁進20年:

毋忘初衷 優化機電服務 推動社會發展

## 20 Years and Beyond: Uphold our Values to Enhance E&M Services and Promote Development of Hong Kong

電工程營運基金「營運廿載 源於心 役於人;機電未來 續創新 惠及民」,為客戶提供優質的機電工 程服務,藉此提升市民的生活質素。

機電署一向致力推動綠色建築。在典禮上,陳署長接署長接會頒發予機電署泰色建築議會頒發予機電署樂訊大樓的「綠建環評既有建築等。機電署總議會是首幢獲得香港綠色建築部議,大會最高評級的現有政範作用無數現有建築物的可持續發展。

Serving with Care and Innovation: 20 Years and Beyond" is the motto of the Electrical and Mechanical Services Trading Fund (EMSTF). We offer high-quality E&M engineering services to our clients in order to enhance the quality of daily life of the general public.

In commemorating EMSTF's 20th anniversary, we held a Thanksgiving Ceremony on 15 September at the ground floor lobby of the EMSD Headquarters Building, which was officiated by the Chief Secretary for Administration, Mrs. Carrie Lam. Addressing the ceremony, Mrs. Lam commended EMSTF for becoming the most trusted partner of its client

機電工程署署長陳帆先生(右)接受香港綠色建築議會主席張孝威 先生(左)頒發「綠建環評既有建築」最終鉑金級證書。

Mr. Frank Chan, Director of Electrical and Mechanical Services (right), received the certificate of Final Platinum Rating under BEAM Plus for Existing Buildings from Mr. Cheung Hau-wai, Chairman of the Hong Kong Green Building Council.

departments through the diligent, reliable and professional one-stop services it offered. She encouraged us to uphold our values of innovation, sustainable development and caring for all and contribute to the building of a progressive and harmonious society.

The Director of Electrical and Mechanical Services, Mr. Frank Chan, pointed out at the ceremony that EMSTF embraced the belief of putting people first and creating

public value as our priority.
The principle of "Operating at Slim Profit" was adopted by proactively controlling costs and continuously improving productivity,

allowing the clients to retain more resources to benefit the public. All

EMSTF colleagues were determined in upholding this belief wholeheartedly, and promised to continue their efforts enhancing its E&M asset management support development of Hong Kong with professionalism and commitment, letting the legend of Hong Kong live on.

EMSD is dedicated to promoting green buildings. At the







政務司司長林鄭月娥女士(中)、公務員事務局局長張雲正先生(左五)、發展局常任秘書長(工務)韓志強先生(右六)和機電工程署署長陳帆先生(左六)於主持機電工程營運基金20周年感恩典禮的亮燈儀式後,與多位機電署前署長、現任管理層和年青的員工代表拍照留念。

The Chief Secretary for Administration Mrs. Carrie Lam (centre), the Secretary for the Civil Service Mr. Clement Cheung (5th left), the Permanent Secretary for Development (Works) Mr. Hon Chi-keung (6th right) and the Director of Electrical and Mechanical Services Mr. Frank Chan (6th left) posed with former directors, existing management team and young staff representatives of EMSD after the lighting ceremony of the EMSTF 20th Anniversary Thanksgiving Ceremony.

ceremony, Mr. Chan received the certificate of Final Platinum Rating under BEAM Plus for Existing Buildings from the Hong Kong Green Building Council. The EMSD Headquarters Building is the first existing government

building being awarded the highest BEAM Plus rating. We hope we can set an example of sustainable development for existing buildings.

## 靈活創新 持續發展 關懷共濟



政務司司長林鄭月娥女士勉勵我們繼續以靈活創新、 持續發展和關懷共濟的信念,為社會的進步共融作出 貢獻。

The Chief Secretary for Administration, Mrs. Carrie Lam, encouraged us to continue to uphold our values of innovation, sustainable development and caring for all and contribute to the building of a progressive and harmonious society.



#### 20周年主題展覽

為慶祝成立20周年,營運基金除了在 9月15日舉行20周年感恩典禮外,更 在機電署總部大樓地下大堂舉辦為期 一個月的展覽,供嘉賓、訪客及同事 參觀。

里程碑:介紹營運基金歷年取得的重要里程碑,並展示部分珍貴收藏品程的品1996年關於成立機電工程營運基金條例、前工務司屬運基金條例、前工務司屬等工程於1996年致各工會主席的信件一「機電服務營運基金」、獲頒發1998年「香港服務業獎:生產力」時的照片、2006年香港管理專業協會優質管理獎金獎獎座等。

互動電子展板:透過47個專題 故事,展示營運基金自1996年 成立至今一直用心為香港的服 務。電子展板以年表順序方式 勾畫出營運基金20年來曾參與 的一些具代表性的工程服務, 形成一幅天際動畫景觀。故事 內容與20周年主題「營運廿載 源於心 役於人;機電未來 續 創新 惠及民」互相呼應,呈現 出營運基金從過去、現在以及 未來,持續貫徹營運基金成立 的目的,不斷改進和提升服務 質素和生產力,用靈活創新的 方法服務客戶和市民,創造最 大公眾價值。

請瀏覽網址:www.emsd.gov.hk/EMSTF20 或掃描以下二維碼,觀看與機電工程營運 基金20周年相關的資訊。

Please visit the website

www.emsd.gov.hk/EMSTF20 or scan the QR code below to view information related to the EMSTF 20th Anniversary.



#### 20th Anniversary Themed Exhibition

Apart from the 20th Anniversary Thanksgiving Ceremony on 15 September, EMSTF also staged a one-month exhibition at the ground floor lobby of the EMSD Headquarters Building for guests, visitors and colleagues.

Milestones: It showcased important milestones of EMSTF over the years. Some of the collectibles were displayed, including the Trading Funds Ordinance on the establishment of EMSTF in 1996; the letter entitled "Electrical & Mechanical Services Trading Fud" issued to chairmen of

Bronze Bauhinia Star, the Medal of Honour, the Chief Executive's Commendation for Government / Public Service, the Secretary for the Civil Service's Commendation Award, the Ombudsman's Awards, etc.

Interactive Video Wall: It exhibited the journey of hearty and caring EMSTF services in the past 20 years framed in 47 numbers of feature stories. The feature stories are chronologically arranged and available from the animated skyline view of signature events and services, where visitors can read the contents of stories by hitting



主題展覽展示營運基金在過去20年的重要里程碑。

The Themed Exhibition showcased important milestones of EMSTF over the past 20 years.

various staff unions by former Secretary for Works, Mr. Kwong Hon-sang, in 1996; a photograph taken at the presentation ceremony of the "Hong Kong Award for Services: Productivity (1998)"; the gold award trophy of 2006 Hong Kong Management Association Total Quality Management Award, etc.

In Recognition of Our Quality Services: This was to recognise the group of outstanding colleagues working dedicatedly for the Department. The exhibited awards included the Silver Bauhinia Star, the

the year bubbles on the wall. The contents of stories echoed with the spirit described in its motto: "Serving with Care and Innovation: 20 Years and Beyond". It demonstrated that EMSTF has always been and will always uphold the mission of EMSTF establishment - to continuously improve the quality and productivity of our services; to serve customers and the public in flexible and innovative manners; and to create the maximum public value.

嘉賓濟濟一堂,場面熱鬧。

Guests gathered and mingled with a warm and lively atmosphere.

## 機電工程署創科論壇

#### 專家學者雲集 探究香港未來城市發展

## **EMSD Summit – Imaginovate Hong Kong**

**Experts and Scholars Gather to Explore Future City Development of Hong Kong** 

推動科技創新,提升香港競爭力以惠及市民,機電工程署將於11月舉辦「機電工程署創科論壇」,邀請來自世界各地的專家學者分享他們的經驗和研究成果,藉以幫助客戶部門和啟發業界的創新思維,並探究未來50年香港在機電工程方面的發展,務求把香港打造成世界級城市。

「創科論壇」定於11月17日假香港科學園舉行,是機電工程營運基金慶祝成立20周年的重點活動之一,發展局局長陳茂波先生將蒞臨擔任主禮嘉賓。

是次論壇的主題為「創構未來香 港」,屆時會從樓宇、交通、能源、 家居、健康生活及持續發展等不同 範疇探討未來城市的最新發展,冀 能啟發業界以創新科技改善未來生 活,共同建設美好香港。我們激請 了多位海外及本地的專家、學者、政 府官員,以及商會、環保組織及機 電業代表等業界精英出席論壇,其 中來自英國牛津大學的未來城市研 究專家 Steve Rayner 教授,以及香 港氣候變化論壇創辦人潘樂陶博士 將擔任主講嘉賓,跟與 會者分享經驗。除此 之外,機電工程署署 Opening 長陳帆先生也會與 Address

程商聯會會長莊堅烈先

生一同探討香港未來50年的發展。

此外,我們會於11月18日舉行技術參觀活動,參加者可參觀港珠澳大橋於大嶼山的建築工地、啟德區域供冷系統或將軍澳新數據中心。



如欲參加「創科論壇」,請掃描左邊的二維碼登記。

Mr Paul CHAN Mo-po

SECRETARY FOR

DEVELOPMENT

To reserve your seat at the forum, please scan the QR code on the left.

### Keynote Speakers

#### **Prof Steve RAYNER**

JAMES MARTIN PROFESSOR OF SCIENCE & CIVILIZATION UNIVERSITY OF OXFORD, UK

#### Ir Dr Otto POON

CO-FOUNDER AND PAST CHAIRMAN, HONG KONG CLIMATE CHANGE FORUM

> n an effort to promote technological innovations and to boost Hong Kong's competitiveness in order to benefit the general public, EMSD is organising the EMSD Summit -Imaginovate Hong Kong in the coming November. Experts scholars from different parts of the world are invited to the forum to share their experience and fruits of research so as to aid our client departments and inspire innovation in E&M industry practitioners. Together, we will explore the development of Hong Kong in the electrical and mechanical engineering aspects in the next 50 years with the aim of transforming Hong Kong into a world-class city.

> > The EMSD Summit —
> > Imaginovate Hong Kong,
> > scheduled to be held at
> > the Hong Kong Science
> > Park on 17 November
> > 2016, is one of the key
> > events to celebrate
> > EMSTF's 20th anniversary.
> > The Secretary for Development,
> > Mr. Paul Chan, is invited to
> > officiate at the event.

Themed "Imaginovate Hong Kong", the forum looks at the latest development of future city from different perspectives including buildings, transportation, energy, home, healthy living and sustainable development, such that the industries would be inspired to improve future quality of living with innovative technology and build a better Hong Kong together. We have invited many local and overseas trade elites including consultants, scholars, government

#### Parallel Sessions

- · POWER UP FOR TOMORROW'S CITY
  - BUILDING IN FUTURE CITY
  - HOME FOR TOMORROW
  - FUTURE CITY TRANSPORTATION
    - LIFESTYLE OF HEALTH AND SUSTAINABILITY
    - · HONG KONG IN 50 YEARS

#### Panel Discussion on "Vision for Hong Kong in 2066"

#### Members

Ir Eric MA

UNDER SECRETARY FOR DEVELOPMENT

Ms Christine LOH

UNDER SECRETARY FOR THE ENVIRONMENT

Mr S M YAU

UNDER SECRETARY FOR TRANSPORT AND HOUSING

Ir Joseph CHOI PRESIDENT, THE HONG KONG INSTITUTION OF ENGINEERS

Mr Paul CHONG PRESIDENT,

THE FEDERATION OF ELECTRICAL AND MECHANICAL CONTRACTORS LIMITED

#### Moderator

Ir Frank CHAN Fan

DIRECTOR OF ELECTRICAL AND MECHANICAL SERVICES

officials, and representatives from trade associations, environmental organisations and E&M industries to the forum. Among them, Prof Steve Rayner, an expert on future city from the University of Oxford, and Dr. Otto Poon, the founder of the Hong Kong Climate Change Forum, will be the keynote speakers to share their experience with participants. In addition, our Director of Electrical and Mechanical Services, Mr. Frank Chan, would convene a panel discussion with Under Secretary for Development, Mr. Eric Ma; Under Secretary for the Environment, Ms Christine Loh; Under Secretary for Transport and Housing, Mr. S M Yau; President of the Hong Kong Institution of Engineers, Mr. Joseph Choi; and President of the Hong Kong Federation of Electrical and Mechanical Contractors Limited, Mr. Paul Chong, to explore development of Hong Kong in the next 50 years.

Moreover, we are organising technical visits on 18 November 2016 that will take participants to the construction site of Hong Kong-Zhuhai-Macao Bridge on Lantau Island, Kai Tak District Cooling System or the new data centre in Tseung Kwan O.

## 科技交流研討會系列

促進與客戶、業界和學者的交流

## **Technology Sharing Seminars Series**

**Enhanced Interaction with Clients, Trade and Scholars** 

電工程營運基金是客戶部門和 機電業界的緊密合作伙伴。機電署於 今年5月和6月舉辦了一系列的科技 交流研討會,除了作為營運基金20 周年的慶祝活動之外,更重要的是透 過分享創新和先進的工程科技,促進 客戶部門、機電業界、大學學者和 機電署的交流與合作,共同改善和 提升本港機電業的技術水平及服務 質素。

科技交流研討會分為創新科技交流 會和業界科技研討會。創新科技交 流會邀請了香港城市大學、香港中 文大學、香港大學、香港科技大學 和香港理工大學的學者主講「新世 代科技」、「電力科技」和「智能 科技」這三個主題。在交流會上, 學者介紹了不少創新的科技理論和 概念,例如環境智能感應器、最新 的發光二極管科技和數據科學,讓 業界從業員能思考和應用這些科技 概念,優化機電設計和改善維修服 務,從而協助客戶和提升機電服務 水平。

業界科技研討會激請了機電業界 商會和機電署的專家負責主講七個主題: 「智能城市」、「建築信息模擬」、 「重新校驗」、「空調」、「消防和 升降機及自動梯」、「生物醫療和 電子 | 及「電力服務 | 。當中關於 「重新校驗 | 和「空調 | 的兩場研 討會,是配合政府去年發布的《建 築物能源審核實務守則》和《屋宇 裝備裝置能源效益實務守則》新版 本所訂明有關提升建築物能源效益 的要求,協助客戶部門和業界檢視 其機電設備運作情況和提升能源效 益。這兩場研討會均座無虛設,與 會者超過400位,包括多個政府部門 的首長級及高級人員。

在兩個月內,我們就十個主題舉辦 了11場工程和科技交流研討會,一 共涵蓋約50個題目。有賴各界鼎力 支持,研討會吸引了1600人參與。 嘉賓講者積極跟與會者交流,而與 會者亦反應熱烈, 在答問環節中踴 躍發言。



周年的慶祝活動之一,鼓勵與會者就最新 和先進的工程科技發展進行交流,從而提高服 務質素,造福社會。

As part of the EMSTF 20th Anniversary celebratory activities, the Technology Sharing 2016 promoted exchange of the latest and advanced engineering technology development so as to achieve service excellence for the community.

## 建築信息模擬技術論文獲國際會議肯定

### **Technical Paper on BIM Recognised at** International Conference

**全** 各場業界科技研討會中,「建 築信息模擬」(BIM)是其中一個重要 的主題。繼2014及2015年成功開發 結合建築信息模擬與資產管理 (BIM-AM)的平台,機電署的BIM-AM 團隊今年8月遠赴美國得克薩斯州, 出席由國際電機電子工程師學會主辦 的「自動化科學與工程會議」(IEEE CASE),並於會上發表早前提交的論 文《BIM-Enabled Streamlined Fault Localisation with System Topology, RFID Technology and Real-Time Data Acquisition Interfaces》,由此足證我們的研究 已達國際水平。

IEEE CASE 是享負盛名的國際會議,

旨在為跨行業和多元科學研究提供交 流平台,以促進自動化科學與工程方 面的創新和應用,只有設計新穎、具 原創性和高技術水平的論文才會獲接 受和邀請在會上發表。機電署的技術 論文完全符合以上條件,因而能從 30多個國家及地區中脱穎而出,成 為獲發表和出版的論文之一。這篇論 文現已刊登於會議論文集,並將納 入IEEEXplore及其他文摘和索引數

#### BIM-AM項目申請專利

機電署在創新和應用技術方面,再 一次獲國際機構認同,為業界作出 貢獻。此外,本署的BIM-AM團隊已 就BIM-AM項目的研究成果向知識產

權署申請為期八年的香港專利,預計 可於本年底獲批,藉此確保本署和業 界在這方面的持續發展。





MSTF is a close partner of our client departments and the E&M trade. In May and June this year, EMSD organised a series of technology sharing seminars as part of the EMSTF 20th Anniversary celebratory activities. More importantly, through sharing of innovative and advanced engineering technology, we promoted exchange and collaboration among client departments, E&M trades,

university scholars and EMSD, so as to jointly enhance the level of skills and service quality of local E&M industries.

sharing seminars comprised Innovation Technology Sharing and Trade Technology Seminars. For the Innovation Technology Sharing, we invited scholars from the City University of Hong Kong, the Chinese University of Hong Kong, the University of Hong Kong, the Hong Kong University of Science and Technology and the Hong Kong Polytechnic University to deliver talks on three themes. namely "Next-Gen Solutions", "Power Technologies" and "Smart Solutions". During the sharing, the scholars introduced to the audiences many innovative technological theories and concepts such as environmental smart sensors, latest LED technology and data science. It enabled industry practitioners consider and apply such technological concepts to optimise their designs and to improve maintenance services, ultimately assisting clients and enhancing the quality of E&M services.

For the Trade Technology Seminars, we invited experts from E&M industries, trade associations and EMSD to speak on seven themes, namely "Smart City", "Building Information Modelling",

"Retro-commissioning", "Air-conditioning", "Fire Services and Lift & Escalator", "Biomedical and Electronics" "Electrical Services". Among them, the two on "Retro-commissioning" and "Air-conditioning", which were full-housed, were in line with the Government's initiative to raise building energy efficiency requirements as set out in the new editions of the "Code of Practice for Building Energy Audit" and the "Code of Practice for Energy Efficiency of Building Services Installation" issued last year. They were aimed to help client departments and the trade to revisit the operation of their E&M facilities and improve energy efficiency. These two seminars were attended by more than 400 audiences, including a number of directorate and senior staff members from government departments.

Within the two months, we held 11 engineering and technology sharing seminars on around 50 topics under ten themes. With full support from all relevant parties, we attracted 1 600 attendants to the seminars. Guest speakers interacted proactively with the audiences who responded enthusiastically in the Q&A sessions.

Among the Trade Technology Seminars, Building Information Modelling (BIM) was one of the important themes. Following our development of a platform integrating BIM and Asset Management (BIM-AM) in 2014 and 2015, our BIM-AM team travelled to Texas, United States in August this year to attend the "Conference on Automation Science and Engineering" hosted by the Institute of Electrical and



Electronics Engineers (IEEE CASE). At the conference we presented a technical paper entitled "BIM-Enabled Streamlined Fault Localisation with System Topology, RFID Technology and Real-Time Data Acquisition Interfaces" which was submitted earlier. This is clear proof that our research work is on a par with the international standards.

IEEE CASE is a renowned international conference serving as a platform for cross-industry and multi-disciplinary research exchanges to facilitate innovation and applications of automation science and engineering. Only papers that demonstrate a high level of novelty, originality and technical soundness are accepted and invited for presentation at the conference. Our paper sufficiently satisfied the above criteria and thus stood out from other papers submitted by more than 30 countries and regions to be

機電署發展的BIM-AM項目能提高建築物的設施操作及 維修保養效率。

The BIM-AM project developed by EMSD can enhance the operation and maintenance efficiency of building facilities.

among those selected for presentation and publication. Our paper was published in the conference proceedings and will be included into the IEEEXplore as well as other abstracting and indexing databases.

## **BIM-AM Project Patent Application** in Process

EMSD contributes to the trade by once again earning recognition from an international organisation for our innovation and applied technologies. Moreover, our BIM-AM team has filed an application with the Intellectual Property Department for an eight-year patent in Hong Kong for the research output of the BIM-AM project, approval of which is expected to be received by the end of this year. It is our ultimate goal to ensure the sustainable BIM-AM development of EMSD and the trade.

## 見習技術員勝出「2016香港青年技能大賽」

Technician Trainees Win in WorldSkills Hong Kong

**Competition 2016** 

電署一直致力培訓年青見習技術 員,並鼓勵他們參加比賽接受挑戰, 以提升技術,為客戶和市民帶來更優 質的服務。今年6月,機電署多名見 習技術員參加了職業訓練局舉辦的 「2016香港青年技能大賽」。憑着 出色的技術,陳肇霖先生和羅煒儒 先生在電氣安裝組中勝出,而劉至 正先生和余豐源先生則在空調製冷 組中獲勝。

「香港青年技能大賽 | 提供一個平 台,讓本地年青技術員展示優秀的 專業和職業技能。為提升參賽見習 技術員的技術和自信,我們安排導 師為他們提供强化訓練及支援,使 他們在「2016香港青年技能大賽」 中大放異彩。

我們在此恭賀四位勝出的見習技術 員。他們將有機會獲選參加明年的 「世界技能大賽」,與來自世界不 同地區的年青技術員切磋技術和進行 交流。我們的導師團隊會繼續培育後 進,協助他們積極操練備戰,提高技 術水平,讓他們能學以致用,為香港 爭光。

MSD is committed to grooming young technician trainees and encouraging them to take on new challenges by participating in various competitions. This is to improve their skills so as to bring better services to our clients and the general public. In June this year, a group of technician trainees from EMSD participated in the WorldSkills Hong Kong Competition 2016. With their outstanding skills, Mr.



Chan Siu-lam and Mr. Law Wai-yu won in the "Electrical Installations" category, while Mr. Lau Chi-ching and Mr. Yu Fung-yuen scored a success in the "Refrigeration and Air Conditioning" category.

WorldSkills Hong Kong Competition provides a platform for young local technicians to demonstrate their excellent professional and vocational skills. To enhance the skills and confidence of our technician trainees, we arrange instructors to provide intensive training and support for them, enabling them to shine in the WorldSkills Hong Kong Competition 2016.

Congratulations to our four winning technician trainees! They are eligible to be selected to participate in the WorldSkills Competition next year, a chance to exchange their skills and

中展示他們優秀的職業技能。 Our technician trainees demonstrated their excellent vocational skills in the WorldSkills Hong

WINNER

experiences with young technicians from other parts of the world. Our team of instructors will continue to nurture these young talents, help them diligently prepare for the competitions and enhance their skills so that they can apply what they have learned and win honour for Hong Kong.

您的寶貴意見對我們非常重要!如大家對《機電傳聲》有任何意見或回應,請隨時聯絡我們,讓我們不斷改進。 如果您的同事有興趣收取本通訊及加入郵寄名單,歡迎以電郵 (bssd@emsd.gov.hk) 或傳真 (傳真號碼: 2882 1574)方式通知我們。 如果您希望我們從郵寄名單中刪除您的名字,或更新您的資料,請透過電郵(bssd@emsd.gov.hk)與我們聯絡。

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