

HKIE Project Competition 2016

“IoT Development for Smart Cities”

29 March 2016 Hong Kong Science Park



Date: 29 March 2016, Tuesday

Time: 9:00 am ó 4:30 pm

Venue: Charles K. Kao Auditorium, 1/F, Lakeside 2,
Hong Kong Science Park, Pak Shek Kok, Shatin, Hong Kong

Programme Highlight

The Internet of Things (IoT) brings people, processes, data and things via the evolving virtual space into a newer and more promising dimension. It facilitates the use of technologies to enhance comfort, improve energy efficiency, simplify tasks that normally consume our home and work lifestyle and provide us a greater control of our needs.

The HKIE Electronics Division, a professional and learned society, is organizing a project competition namely HKEPC2016, to promote the benefits of IoT. The aim is to uplift the awareness and knowledge of IoT technologies of the Hong Kong people and to nurture engineers and students to effectively use and apply IoT technologies to improve the quality of life. This development is in line with the Smart City initiative as proposed by our Chief Executive in his Policy Address 2015. Prominent applications include Smart Energy, Smart Transportation, Smart Healthcare, etc.

The HKEPC2016 Competition has three categories, namely Tertiary Education Category, Industry Category and Public Category.

We are honored to have Legislators Ir Dr. Hon WK Lo and Hon Charles Mok to deliver the Keynote speeches; Mr. Simon Wong (CEO of LSCM) and Mr. Eric Yeung (Convener of Smart City Consortium) to give a speech related to smart city development; Ir Dr. Jolly Wong (Chief Technology Officer of Hong Kong Police Force) and Mr. Simon Wong (CEO of LSCM) to chair panel discussions. In addition, Ir TF Chow, Senior Advisor ó Strategy of CLP Power Hong Kong Ltd. and Ir SS Yuen, Director of Operations of The Hongkong Electric Co., Ltd., Mr. Ivan Leung, Head of Engineering of SmarTone Mobile Communications Limited, Ir CS Chang, CEO of Pypun-KD & Associates Ltd will also deliver visionary speeches.

In addition, we are also honoured to have the well-received Lead Judges namely Prof KF Man, Head and Chair Professor, Department of Electronic Engineering, City University of Hong Kong and Prof Michael Geoffrey Somekh, Head and Chair Professor of EIE, The Hong Kong Polytechnic University to chair the judge panels of Industry and Tertiary Education/Public Categories respectively. Prof KF Man and Prof Somekh will give a summary of the competition.

Last but not least, we would thank the support of the Hong Kong Science and Technology Park for the sponsor of venue. The sponsor from CLP Power Hong Kong Ltd, The Hongkong Electric Co., Ltd, Pypun-KD & Associates Ltd and SmarTone Mobile Communications Ltd and and the support from Supporting Organizations are gratefully acknowledged.

Distinguished guests joining the judge panel include (Name list in alphabetical order):

Lead Judges

Ir TF Chow, Senior Advisor - Strategy of CLP Power Hong Kong Ltd

Prof. Kim Fung Man, Head and Chair Professor of the Department of EE, City University of Hong Kong

Prof. Michael Geoffrey Somekh, Head and Chair Professor of the Department of EIE, The Hong Kong Polytechnic University

Ir SS Yuen, Director of Operations, The Hongkong Electric Co., Ltd

Judges

Ir John Chan, Senior Construction Manager of CLP Power Hong Kong Ltd

Mr. Thomas Chan, Manager of Hong Kong Science and Technology Parks Corporation

Mr. Stephen Chau, Interim CEO of SmarTone Mobile Communications Limited

Dr. Charles Cheng, Technical Manager of Chun Wo Construction & Engineering Co., Ltd

Dr. Lawrence Cheung, General Manager of Hong Kong Productivity Council

Prof. K C Ho, Dean of The Open University of Hong Kong

Dr. Kevin Hung, The Open University of Hong Kong

Ir Wilson Kwok, Senior Communication Engineer of The Hongkong Electric Co., Ltd

Dr. Alan Lam, CEO of Sengital Limited

Mr. Gordon Lee, Kai Shing Management Services Ltd

Mr. Tim Lee, MIC/ProAct Centre (Electronics)

Dr. Tony Lee, The Open University of Hong Kong

Dr. W C Lee, The Hong Kong Polytechnic University

Ir C L Leung, General Manager of XRL E&M, MTR

Mr. Ivan Leung, Head of Engineering of SmarTone Mobile Communications Limited

Ir Victor Ng, Managing Director of Micom

Ir Peter Tang, Vice Principal of IVE (TY)

Mr. Paul Tsui, Engineering Manager of Systems of MTR

Mr. Elvin Wong, Hong Kong Productivity Council

Mr. Howard Yeung, Kai Shing Management Services Ltd

Ms. Jenny Yeung, Past President of IFMA (Hong Kong Chapter)

Contestants of HKEPC2016 participating in the Final Demonstration Phase will be cordially invited to share their challenges encountered in the competition period and demonstrate their projects in the booth at the HKSP venue during the HKEPC 2016 Award Ceremony on 29 March 2016 at the Charles Kao Auditorium of Hong Kong Science Park.

Champion of Industry Category will be invited to present at the Hong Kong Science Park in: (1) Hong Kong Electronics Symposium 2016 (HKES2016) on 14 April 2016 Thursday (and host a demonstration booth); and (2) APAC Innovation Summit 2016 on 8 April 2016 Friday.

HKEPC2016 Award Ceremony
29 March 2016, Science Park Charles K. Kao Auditorium
Organized by HKIE Electronics Division

Time	Topics	Speaker / Presenter
08:45 ó 09:15	Registration and Welcome Coffee	
09:15 ó 09:20	Welcome by HKIE HKEPC Chairman	Ir Dr. YH SHUM
09:20 ó 09:25	Legislator's Message	Ir Dr. Hon Wai-Kwok LO
09:25 ó 10:25	Short introduction of submitted projects	Contestants
10:25 ó 10:45	Tea Break	
10:45 ó 11:20	Panel discussion for contestants of Industry Category	Chaired by Ir Dr. Jolly WONG, Chief Technology Officer, HKPF (Supported by Ir Dr. KF TSANG)
11:20 ó 11:55	Panel discussion for contestants of Tertiary Education/Public Category	Chaired by Mr. Simon WONG CEO, LSCM (Supported by Ir Wilson KWOK)
11:55 ó 14:00	Lunch	
14:00 ó 14:05	Opening Speech by HKIE Electronics Division	Ir Dr. KF TSANG Chairman
14:05 ó 14:10	Welcome Message by Hong Kong Science Park	Mr. Andrew YOUNG Chief Commercial Officer, Hong Kong Science Park
14:10 ó 14:15	Keynote Speech	Mr. Simon WONG CEO of LSCM
14:15 ó 14:20	Speech by CLP Power Hong Kong Ltd	Ir TF CHOW Senior Advisor-Strategy
14:20 ó 14:25	Speech by SmarTone Mobile Communications Ltd	Mr. Ivan LEUNG Head of Engineering
14:25 ó 14:30	Speech by The Hong Kong Polytechnic University	Prof. Michael Geoffrey SOMEKH Head and Chair Professor of the Department of EIE
14:30 ó 14:35	Speech by Supporting Organization	Mr. Eric YEUNG Convener, Smart City Consortium
14:35 ó 14:45	Presentation of Award (Tertiary Education / Public Category)	Presented by Honorable Guests
14:45 ó 14:50	Speech by The Hongkong Electric Co., Ltd	Ir SS YUEN Director of Operations
14:50 ó 14:55	Speech by Pypun-KD & Associates Ltd	Ir CS CHANG CEO
14:55 ó 15:00	Legislator's Message	Hon. Charles MOK
15:00 ó 15:05	Speech by City University of Hong Kong	Prof. Kim Fung MAN Head and Chair Professor of the Department of EE
15:05 ó 15:15	Presentation of Award (Industry Category)	Presented by Honorable Guests
15:15 ó 15:30	Photo Takings	Winners, Contestants, Guests
15:30 ó 15:35	Closing Speech by HKIE Electronics Division	Ir Dr. KF TSANG Chairman
15:35 ó 16:30	Refreshment and Networking	ALL

Project Teams Invited to Participate in the Final Demonstration Phase of HKEPC2016

Projects from Tertiary Education Category

Bonnect, a Smart Baby Diet Advisor System for Next Generation

Smart Destination Dispatch Elevator with Mesh Network for Identification and Tracking

Smart Kitchen

Smart Battery Health Monitoring and Diagnostic System

An Accurate Indoor Localization Technique

Vision Impaired Navigation

Optimal Vents Design and Control Management for Indoor Air Quality Improvement in Green Buildings

Projects from Industry Category

Real-World IoT Platform for Electricity Supply - myEnergy Program

Smart AirCon IoT Product

Real Time Location Proximity Data System for Smart Cities

Smart Battery IoT Solution

Vgo

Petble: A Disruptive Pet Ecosystem with IoT and Big Data

Automatic Rail Integrity Monitoring with RFID Detection

First Public IoT Network@ Hong Kong

A Platform for the Proliferation of Applications on DeLight Clouds

Projects from Public Category

iVacancy System

SPONSORS

CLP Power Hong Kong Limited

Pypun-KD & Associates Ltd

SmarTone Mobile Communications Limited

The Hongkong Electric Company, Limited

Venue Sponsor

Hong Kong Science and Technology Parks Corporation

SUPPORTING ORGANIZATIONS

- Chinese Institute of Electronics Hong Kong
- City University of Hong Kong (Department of Electronic Engineering)
- The Hong Kong Polytechnic University (Department of Electronic and Information Engineering)
- Hong Kong Institute of Vocational Education
- Hong Kong Electronics & Technologies Association
- Hong Kong R&D Centre for Logistics and Supply Chain Management Enabling Technologies
- The Hong Kong Electronic Industries Association Limited
- Hong Kong Science and Technology Parks Corporation
- Internet of Things Special Users Group Hong Kong
- The Institution of Engineering and Technology Hong Kong
- The Institute of Electrical & Electronics Engineers Hong Kong
- The Open University of Hong Kong
- Smart City Consortium
- Wireless Sustainability Center, Department of Electronic Engineering, City University of Hong Kong
- Technical Committee, Cloud and Wireless Architecture For Industrial Applications, IEEE Industrial Electronics Society