

# 30 Years of Research and Innovation@CityU

At its **30th Anniversary**, City University of Hong Kong (CityU)  
is showcasing its research history and excellence with

*Exhibits from 33 diverse research centres...*

**2 strategic platforms in China: CityU Shenzhen Research Institute and  
CityU Chengdu Research Institute...**

**2 State Key Laboratories approved by the Ministry of Science and  
Technology...**

**Demonstration of a flying robot...**

**Presentations on research, knowledge transfer, research student  
achievements over the past 30 years and much, much more...**

香港城市大學(城大)創校30年，一向致力推動應用主導的科研工作，並積極與產業界建立緊密的合作關係，為社會發展貢獻力量。於 **30 Years of Research and Innovation @CityU** 活動中，您不單可以瞭解城大過去30年在科研上的蛻變及進步，亦同時認識到城大及城大深圳研究院所有研究中心、知識轉移處、周亦卿研究生院及城大成都研究院的發展。是次活動內容包括展覽及科技論壇，介紹最新的科研項目及成果。

**Date:** 22 September – 3 October 2014  
(Detailed information about the exhibits and technology demonstrations  
will be available from 22 to 24 September)

**Time:** 10:30am – 5:30pm

**Venue:** 3/F, Academic 3, City University of Hong Kong

**Language:** Mainly in English

日期: 2014年9月22日至10月3日  
(9月22-24日展覽期間，將有現場講解及示範)

時間: 上午10:30至下午5:30

地點: 香港城市大學學術樓(三) 3樓

語言: 以英文為主

[www.cityu.edu.hk/vprt/innovation](http://www.cityu.edu.hk/vprt/innovation)



# 30 Years of Research and Innovation@CityU

## Foreword

2014 is a year to celebrate!

We have launched a year-long series of programmes and activities that characterise the lively intellectual exchanges that flourish at City University of Hong Kong (CityU). Now it is time to celebrate an area that the University is most proud of: research activities and knowledge transfer.

Since its modest beginning in 1984, CityU has grown from a small institution into a global university that embraces science, technology, and innovation. It is ranked 4th in the world's top 50 universities under 50 years of age and ranked 1st in the Greater China area, including Hong Kong, in the Broad Subject Field of Engineering/Technology and Computer Sciences, a testimony to our creativity and outstanding research abilities and a strong measure of our international competitiveness.



Over the past 30 years, we have set up two State Key Laboratories, four university research centres, sixteen college/school research centres, four applied strategic development centres and seven applied R&D centres/laboratories in Shenzhen. These centres are specialised in identified areas of strategic importance, with a focus on application-oriented research and interdisciplinary or multidisciplinary collaborations, making a significant contribution to technological innovation in the region.

Next, the CityU Chengdu Research Institute is the University's second strategic platform in China for research and development, incubation and innovation, and professional education and training, and the first one in the western region of China. It focuses on applied research and transferring valuable know-how into practical use, benefiting society at large.

**30 Years of Research and Innovation@CityU** comprises exhibitions and technology forums, giving you a view of the past and a glimpse of the future, promoting CityU's research history and the inspiring achievements of our research centres in terms of product development and advanced technology.

We hope that you will enjoy this event and we welcome your guidance, support and enthusiasm at all our 30th Anniversary events!

**Dr Norman LEUNG Nai-pang**

*Pro-Chancellor & Chairman of the 30th Anniversary Organising Committee  
City University of Hong Kong*



## Kick-off Ceremony

A Kick-off Ceremony will be held to unveil the **30 Years of Research and Innovation@CityU** event, and you are most welcome to join and share this special occasion with us.

**Date:** 22 September 2014 (Monday)

**Time:** 10:00am

**Venue:** Wong Cheung Lo Hui Yuet Hall, 5/F, Academic 3, City University of Hong Kong

Tea reception will start at 9:30am.

## Technology Forums

**Venue** Wong Cheung Lo Hui Yuet Hall, 5/F, Academic 3, City University of Hong Kong

**Time:** 2:30pm – 5:30pm

**Language:** English

- Limited seats are available for each forum, please register via [www.cityu.edu.hk/vprt/innovation](http://www.cityu.edu.hk/vprt/innovation) in advance. Seats are offered on a first-come-first-served basis.
- Tea reception will start at 2:00pm before each forum.

### Forum Title: **Advanced Materials for Better Quality of Life**

**22 September 2014 (Monday)**



**Chair:**

Prof WANG Xunli

Head

*Department of Physics and Materials Science  
City University of Hong Kong*



**Materials Discovery and Design:  
The Enabling Role of  
Computational Modeling**

Prof Mark ASTA

*Professor and Chair  
Department of Materials Science and  
Engineering  
University of California, Berkeley*



**Competing Interactions at  
the Local Scale: Exploring Nature**

Prof Despina LOUCA

*Professor  
Experimental Condensed Matter Physics  
Department of Physics  
University of Virginia*



**Development of Multifunctional  
Materials for Biomedical Applications**

Dr Peggy LO

*Assistant Professor  
Department of Biology and Chemistry  
City University of Hong Kong*



**Advanced Light Emitting Nanomaterials**

Prof Andrey ROGACH

*Chair Professor of Photonic Materials  
Department of Physics and Materials Science  
Founding Director of the Centre for Functional  
Photonics (CFP)  
City University of Hong Kong*



**Functional Materials for Plastic Sensor  
and Memory**

Dr Roy VELLASAMY

*Associate Professor  
Department of Physics and Materials Science  
City University of Hong Kong*

**Forum Title: Food, Energy, and the Environment**  
**23 September 2014 (Tuesday)**



**Chair:**  
Prof LAM Kwan Sing Paul  
Director  
*State Key Laboratory in Marine Pollution*  
*City University of Hong Kong*



**Magnificent and Mystical Marine Turtles:  
Cultural Links to Conservation**  
Mr George BALAZS  
*Vice-Chair for the Oceania Region of the*  
*IUCN Marine Turtle Specialist Group*



**Smart Energy Saving Apparatus**  
Prof Henry CHUNG  
*Professor*  
*Department of Electronic Engineering*  
*Director of Centre for Smart Energy Conversion*  
*and Utilization Research*  
*City University of Hong Kong*



**Analytical Tools for Environmental and  
Food Safety Applications**  
Prof Michael LAM  
*Professor*  
*Department of Biology and Chemistry*  
*City University of Hong Kong*



**Genetically Modified Crops:  
Monster or Saviour?**  
Dr LAM Yun Wah  
*Associate Professor*  
*Department of Biology and Chemistry*  
*City University of Hong Kong*



**Conservation of Horseshoe Crabs**  
Dr Paul SHIN  
*Associate Professor*  
*Department of Biology and Chemistry*  
*City University of Hong Kong*  
*Co-Chair, IUCN Horseshoe Crab Specialist*  
*Group*

**Forum Title: Advanced Manufacturing**  
**24 September 2014 (Wednesday)**



**Chair:**  
Prof SUN Dong  
Head  
*Department of Mechanical and Biomedical Engineering*  
*City University of Hong Kong*



**Enhancing Mechanical Performance of  
Composites via Improved Manufacturing  
Processes**  
Prof MAI Yiu Wing  
*University Chair & Professor of*  
*Mechanical Engineering*  
*Centre for Advanced Materials Technology*  
*(CAMT)*  
*School of Aerospace, Mechanical and*  
*Mechatronic Engineering J07*  
*The University of Sydney*



**Cooperative Control of  
Multi-Agent Systems**  
Prof FENG Gang  
*Associate Provost (PRVT)*  
*Chair Professor of Mechatronic*  
*Engineering*  
*Department of Mechanical and*  
*Biomedical Engineering*  
*City University of Hong Kong*





**Learning from Real Issues-Toward New Generation of Industrial Robots**  
 Prof Kazuhiro KOSUGE  
*Professor*  
*Department of Bioengineering and Robotics*  
*Graduate School of Engineering*  
*Tohoku University*



**A Quality Journey: From Manufacturing to Field Operations with PHM**  
 Prof TSUI Kwok Leung  
*Head and Chair Professor of Industrial Engineering*  
*Department of Systems Engineering and Engineering Management*  
*City University of Hong Kong*



**Optically-Induced Electrokinetics: A Digital Path to Cancer Cell Manipulation, Patterning, and Differentiation**  
 Prof LI Wen Jung  
*Chair Professor of Biomedical Engineering*  
*Department of Mechanical and Biomedical Engineering*  
*City University of Hong Kong*

**Forum Title: Wireless Technologies: from Microwaves to Terahertz Waves**  
**25 September 2014 (Thursday)**



**Chair:**  
 Prof CHAN Chi Hou  
 Director  
*State Key Laboratory of Millimeter Waves*  
*City University of Hong Kong*



**Terahertz Technology and its Applications**  
 Dr Goutam CHATTOPADHYAY  
*Principal Engineer/Scientist*  
*NASA-Jet Propulsion Laboratory*  
*Visting Professor of the Division of Physics, Mathematics, and Astronomy*  
*California Institute of Technology*



**Art of Mixing and Hybridization in Engineering**  
 Prof WU Ke  
*Poly-Grames Research Center*  
*Department of Electrical Engineering*  
*Ecole Polytechnique (University of Montreal)*  
*Center for Radiofrequency Electronics Research (CREER)*



**Transparent Antennas: From 2D to 3D**  
 Prof LEUNG Kwok Wa  
*Professor*  
*Department of Electronic Engineering*  
*City University of Hong Kong*



**Multiple-Access in Large MIMO Systems**  
 Prof LI Ping  
*Chair Professor of Information Engineering*  
*Department of Electronic Engineering*  
*City University of Hong Kong*



**Wideband Antennas for Modern Wireless Communications**  
 Prof LUK Kwai Man  
*Chair Professor of Electronic Engineering*  
*Department of Electronic Engineering*  
*City University of Hong Kong*

## Come and Win a Gift

In addition to an eye-opening experience brought by the **30 Years of Research and Innovation@CityU** event, you can also receive a nice gift (8GB USB Flash Drive) by getting a pass in a quiz after touring around the exhibition. You will receive a gift redemption message if you answer 7 out of 10 questions correctly. Please present the redemption message to the reception counter to get your prize. Gift redemption is on first-come-first-served basis. Offer valid from 22 till 26 September 2014 while stocks last.



## Adverse Weather Arrangements

**30 Years of Research and Innovation@CityU** will be cancelled if typhoon signal no. 8 or above/black rainstorm warning is hoisted at or after 7:00am on the event days. Exhibition will open 2 hours after the typhoon signal no. 8 or above/black rainstorm warning is cancelled.

Technology Forums will be cancelled if typhoon signal no. 8 or above/black rainstorm warning is hoisted at or after 12:00noon.

## Enquiries

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