



香港中文大學理學院

**FACULTY OF SCIENCE**

THE CHINESE UNIVERSITY OF HONG KONG

# Newsletter

## Recent Events

### Science Faculty Retreat on Strategic Planning 2017/18



Professor Henry Wong led the Science Faculty Retreat, which took place on 25 April. Professor Wong Hoi Ying kicked off the day by sharing his visions on admissions and analysis of incoming students statistics. Each unit head then gave a brief presentation on the upcoming challenges and future direction of the unit, followed by a series of discussion.

Over 5 years of committed service to the Faculty of Science, Professor Henry Wong will retire from his role of Dean of the Faculty with effect from 1 May. The Faculty congratulated Professor Henry Wong on the next milestone in his remarkable life and expressed sincere gratitude for his contribution to the Faculty.

### Science Career Fair 2018

The Science Career Fair was successfully hosted on 7-8 March, attracting over 1,300 students this year. Exhibitors, ranging from start-ups to global corporations, offered more than 100 positions to science students and graduates. The Fair enabled students to interact with recruiters and obtain in-depth information about the recruitment requirements, job market and working culture.

Three career-related alumni sharing session covered various industries were held prior to the Fair. Alumni shared their work experience, challenges and tips in their professions including education industry, banking and commerce, big data science and pharmaceutical. These talks offered help to current students on job-searching preparation and career planning strategy. Students were able to network with alumni, and seek advice about career paths, postgraduate studies, and transition from university student to work professionals.

Students were also invited to participate in company visits where they were guided to learn about the working culture, physical work environment and laboratories facilities.

## Highlights

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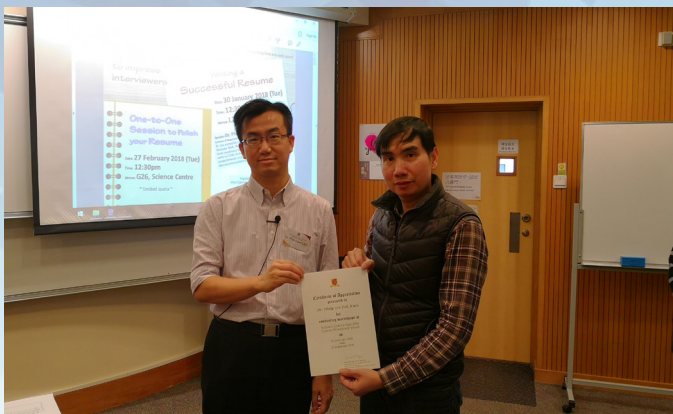
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Three alumni talked about job duties and career path of a data scientist.







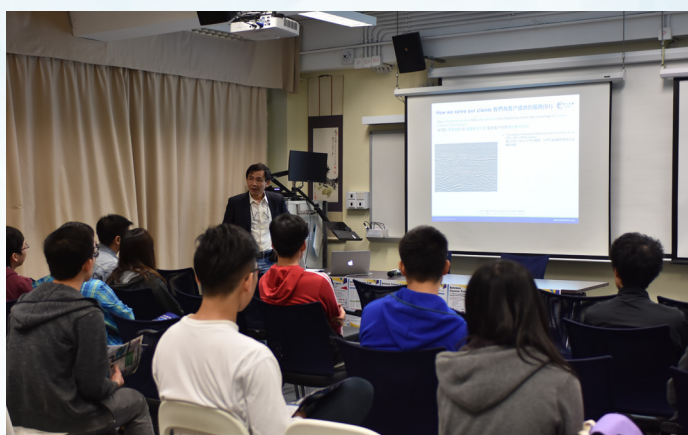
Dr. Phillip Lee Pak Kuen provides in depth advice on resume writing in two resume writing workshops.



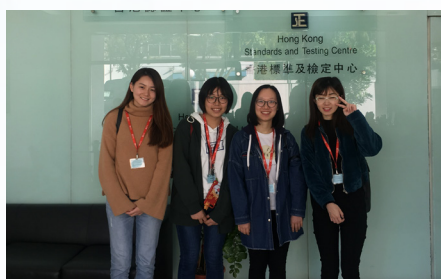
Five pre-fair recruitment talks were hosted to equip students with necessary skills in job hunting, and some students attended on-sit initial interview.



Students meet their potential employers and obtain recruitment information.



Recruiters introduce their company profiles, working culture, and career prospects to students.



Students participate in the company visits offered by ClusterTech Ltd, The Hong Kong Standards and Testing Centre Ltd. and BGI Hong Kong Ltd..

[More Photos](#)

## Student Outreach Activities in Kuala Lumpur and Taipei

The Faculty was invited to be one of the representatives of CUHK to participate in the outreach activities held in Kuala Lumpur and Taipei on 20-22 January and 24-26 February respectively. Professor Lee Huang Kay and Professor Wong Hoi Ying delivered admission seminars and conducted several admission interviews with local candidates in the events. They also paid local school visits and met media in order to promote CUHK programmes and strengthen its global presence.



Prof. Lee and Prof. Wong introduce the Faculty, programmes offered and answer students enquiries.



## Postgradasia Postgraduate Studies Fair 2018

The Faculty joined the largest and longest-running education fair of its kind in Malaysia, “Postgradasia Postgraduate Studies Fair 2018”, at the Kuala Lumpur Convention Centre on 3-4 March. The delegation, headed by Dean of the Graduate School, attracted thousands of visitors and potential students seeking study towards postgraduate qualifications.

Professor Dickon Ng Hang Leung, Professor Gavin Tsui Chit, and Professor Jacky Ngo Chi Kit represented the Faculty to advise students who aspire for postgraduate study on the programmes offered and research opportunities at CUHK. They also assisted students on planning postgraduate study in science disciplines.



*Prof. Ng, Prof. Tsui and Prof. Ngo offer professional academic advices to potential students.*

## The 14th Lau Oi Wah Memorial Science Lecture Series

The 14th Lau Oi Wah Memorial Science Lecture Series was held on 23 March, attracting over 200 audiences, including students, teachers and the public. This year, the event was included as one of the programmes of the HKScifest 2018 hosted by the Hong Kong Science Museum.

The event was kicked off by Professor Steve Tse Ying Lung’s talk on “Exploring Chemistry on Computers” illustrating how computers became available to scientists to study physical problems after World War II and it had since then become the tools for understanding molecular processes. Professor Tse showed the audiences some examples of how experiment and simulation influenced the research directions. Professor Goh Swee Kuan then gave us an insider’s view on electrical resistance with his presentation titled “The Path of Zero Resistance”. He shared an overview of the characteristics of superconductivity, the flow of the electrical current without any resistance and recent developments of the ideal solution for the transfer of energy. His team also demonstrated an intriguing experiment on how resistance could be eliminated by the use of superconductors.



*Prof. Wong Hoi Ying, Associate Dean, expresses his gratitude to Prof. Tse and Prof. Goh for their contribution on promoting science education to the public and youngsters.*



*Prof. Tse discusses some examples how computing power advances the understanding of sciences.*



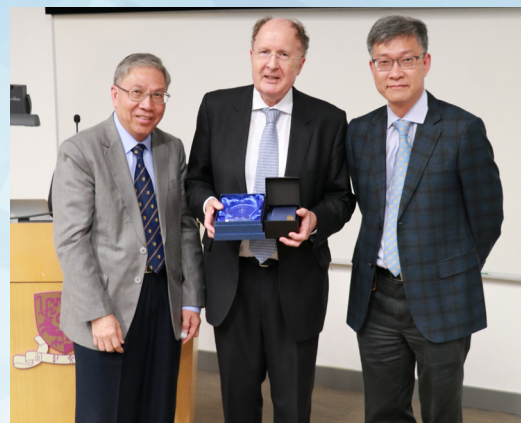
*Prof. Goh demonstrates an experiment on how superconductor eliminates electrical resistance and contributes to our living.*





## Professor Sir Gregory Winter's Lecture at CUHK

The School of Life Sciences and School of Biomedical Sciences were pleased to have invited Professor Sir Gregory Winter, Master of Trinity College, Cambridge, to deliver an inspiring lecture named "Antibodies and Bicycles: Paradigm Shifts in the World of Medicines" on 11 April. Professor Sir Gregory Winter illustrated the development of technologies for making pharmaceutical antibodies by genetic engineering. He is the pioneer of therapeutic monoclonal antibodies, an inventor and also an entrepreneur.



Prof. Chan Wai Yee of School of Biomedical Sciences and Prof. Wong Kam Bo of School of Life Sciences express sincere gratitude to Prof. Sir Gregory Winter.

## Faculty Achievements

### Professor Wang Jianfang conferred the 31st Khwarizmi International Award

Professor Wang Jianfang was selected as the 31st Laureate of the Khwarizmi International Award (KIA), in recognition of his exceptional research accomplishment in the field of Colloidal Plasmonic Metal Nanocrystals. He was the only Asian scholar among five awardees this year.

Professor Wang and his research team's hard work achieved a thorough understanding of Colloidal Plasmonic Metal Nanocrystals, interacted the materials with various nanoscale optical species and put the research success into practical application.



Prof. Wang thanks the financial support of RGC and the hard work of his research team.

### MoE Higher Education Outstanding Scientific Research Output Awards 2017

Professor Jiang Liwen, Professor Chen Zhenyu and Professor Jack Wong Wing Tak of School of Life Sciences were conferred the Ministry of Education Higher Education Outstanding Scientific Research Output Awards 2017. The award presentation ceremony was held on 14 April at CUHK.

Two research teams have been awarded the Second-class Award in Natural Sciences for their outstanding research outcome. Professor Jiang Liwen's research project "Molecular mechanisms of selective transport and degradation of plant proteins" revealed the mechanisms of protein transport and degradation, as well as organelle biogenesis in plant cells. Relevant research results have been published in top international academic journals such as *PNAS*, *Current Biology*, and *The Plant Cell*. This is the third time Professor Jiang has been conferred the MoE award.

Professor Chen Zhenyu and Professor Jack Wong Wing Tak's research project, "Molecular mechanism and novel therapeutic targets in treating endothelial dysfunction of metabolic syndrome", focused on the mechanism by which bone morphogenetic protein-4 induces harmful effect on endothelial cells through oxidative stress and cyclooxygenase, was also recognised by MoE. The study was published in *Circulation Research*. Congratulations!



Prof. Jiang Liwen (4th from left) and his team receive the award certificate from Mr. Chen Baosheng (4th from right), Minister of Education of the People's Republic of China.



## Faculty Exemplary Teaching Award cum Student Awards Ceremony 2017

Faculty Exemplary Teaching Award cum Student Awards Ceremony was grandly held on 20 January at LT1, Yasumoto International Academic Park to honour teachers who excel in teaching, and recognise students' outstanding academic performance and exceptional performance in international competitions.

Professor Henry Wong expressed his appreciation towards teachers for their dedication on igniting intellectual curiosity in students, including:

*Professor Tsang Suk Ying Faye (School of Life Sciences)*

*Ms. Yip Pui Sze Peggy (School of Life Sciences)*

*Professor Yeung Ying Yeung (Department of Chemistry)*

*Professor Chan Kwok Wai (Department of Mathematics)*

*Dr. Leung Hoi Tik Alvin (Department of Physics)*

*Professor Wei Yingying (Department of Statistics)*

*Dr. Tam Pui Yuk Tammy (Earth System Science Programme)*

Over 200 students earned their way into the Dean's Honours List, in recognition of their academic merit. Professor Henry Wong encouraged the awardees continue to think out of the box and bring new ideas to the society by making good use of scientific knowledge. Professor Wong also presented certificates to secondary school students who had achieved excellent performance in international competitions, namely IJSO, IGEM and Int'l Junior Science Olympiad, under the guidance and tutelage of Faculty members.



*Prof. Henry Wong presents the prizes and congratulates teachers who got the faculty Exemplary Teaching Award.*



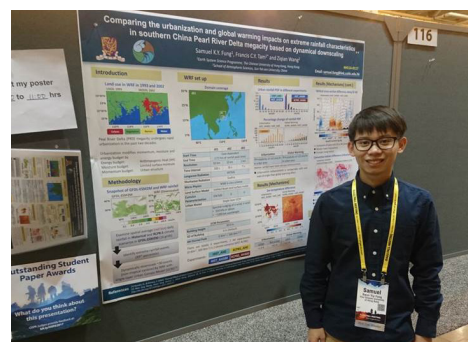
*Guests and parents are invited to share the joy and achievement of our teachers and students at the ceremony.*

## Student Achievement

### MPhil student won an Outstanding Student Paper Award

Mr. Samuel Fung Kung Yip, an MPhil student of Division of Earth & Atmospheric Sciences won an Outstanding Student Paper Award from the American Geophysical Union (AGU) for his project, "Comparing the urbanization and global warming impacts on extreme rainfall characteristics in Southern China Pearl River Delta megacity based on dynamical downscaling", co-authored with Professor Francis Tam Chi Yung of CUHK and Dr. Wan Ziqian of Sun Yat Sen University, in the 2017 AGU annual meeting held in New Orleans, USA.

This award recognises students who have conducted quality research in the Earth and Space Sciences, and usually conferred to only top 3-5% presenters in each section or focus group of the annual AGU meeting.



*Samuel Fung is granted "Outstanding Student Paper Award" from AGU.*

## **Upcoming Events**

### **JUPAS Interviews for Broad-based Science 2018**

Date: 8-9 May, 2018 (Tuesday & Wednesday)

Venue: Esther Lee Building

### **Programme Exploration Days for JUPAS Applicants**

Date : 15-16 May 2018 (Tuesday & Wednesday)

For details, please visit [www.cuhk.edu.hk/adm/PED](http://www.cuhk.edu.hk/adm/PED)

## **Call for Applications**

### **Professional Services Advancement Support Scheme (PASS)**

Internal deadline: 4 May 2018 (Friday)

Details of the above invitation and other latest research funding opportunities are available at the ORKTS website: [www.orkts.cuhk.edu.hk/research-and-funding/funding-opportunities#latest-opportunities](http://www.orkts.cuhk.edu.hk/research-and-funding/funding-opportunities#latest-opportunities)

### **2018 HKIS Towngas Young Scientist Award**

Deadline: 31 July 2018 (Tuesday)

Details of the above invitation, please visit [www.science.org.hk](http://www.science.org.hk)



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