

PolyU and Chinese Academy of Sciences launch joint laboratory for collaborative study in “Applied Mathematics” and “Greater Bay Area Environment”

The Hong Kong Polytechnic University (PolyU) and the two research institutes of the Chinese Academy of Sciences (CAS), namely Academy of Mathematics and Systems Science (AMSS) and Guangzhou Institute of Geochemistry (GIG), today staged an inauguration ceremony of two joint laboratories on PolyU campus, marking the official launch of their collaborations. The two new laboratories are:

- CAS AMSS-PolyU Joint Laboratory of Applied Mathematics (Directors: Professor Yuan Ya-xiang and Professor Chen Xiao-jun);
- and CAS GIG-PolyU Joint Laboratory of the Guangdong-Hong Kong-Macao Greater Bay Area for the Environment (Directors: Professor Wang Xin-ming and Professor Li Xiang-dong).

Complementing the strengths of PolyU and the CAS research institutes, the two joint laboratories will collaborate to extend research frontiers, advance knowledge transfer and applications as well as cultivate talents in the fields of applied mathematics and environmental protection for contributing towards the development of the Greater Bay Area and the society.

In November last year, the Hong Kong SAR Government announced the setting up of the Joint Laboratory Funding Scheme by the University Grants Committee to provide research subsidy to the joint laboratories approved by the CAS. Among the 22 joint laboratories, three are located in PolyU, including the Joint Laboratory for Aerosol and Environment set up by PolyU and the CAS Institute of Earth Environment in 2013, and the two laboratories officially launched today.

Addressing the opening ceremony, Professor Philip C. H. Chan, Interim President of PolyU said, “Over the years, PolyU and the CAS have built solid foundation in research collaboration. The establishment of another two joint laboratories signifies CAS’ recognition of our research



excellence in applied mathematics and environmental science. We will leverage each other's expertise to beef up research studies that align with the nation's development. Through the on-going collaborations with the CAS, we hope we could make valuable contributions to Hong Kong and the nation."

Mr Cao Jing-hua, Director General of CAS Bureau of International Cooperation, said the Central Government had made it definite to support Hong Kong for developing into an International Innovation and Technology Hub, and CAS for establishing an affiliated institution in Hong Kong. "CAS and PolyU are close partners. The joint laboratories are important platforms for enhancing technological collaborations between the Mainland and Hong Kong. PolyU and CAS had set up the Joint Laboratory for Aerosol and Environment, which has made considerable achievements in that aspect. We hope that the newly established joint laboratories will showcase the synergies of CAS and PolyU and will deepen our collaboration in the studies of Fundamental and Applied Mathematics as well as Environmental Science and Management, which are subjects of common concerns. We hope that our collaboration will be beneficial to the advancement of Greater Bay Area (GBA) development and will support the strategic deployment of the Central Government in making Hong Kong as the International Innovation and Technology Hub. We also hope that it will bring the complementary strengths of the Mainland and Hong Kong into full play and ultimately contribute to the economic development and betterment of people's livelihood of the two places."

Attending the ceremony were Professor Gao Xiao-shan, Executive Vice-President of CAS Academy of Mathematics and Systems Science; Professor Xu Yi-gang, Director General of Guangzhou Institute of Geochemistry, CAS; Mr Zheng Xiao-nian, Director General of CAS Bureau of Facility Support and Budget; Ms Li Fang-fang, Director of Office of Hong Kong, Macao and Taiwan Affairs, CAS Bureau of International Cooperation; Ms Luo Wen, Director of CAS Division of Budget System; Ir Professor Alex Wai, Vice President (Research Development), PolyU; Professor Wong Wing-tak, Dean of Faculty of Science and Textiles, PolyU; Ir Professor Xu



You-lin, Dean of Faculty of Construction and Environment, PolyU; as well as senior members of the partnering institutes and departments of the two joint laboratories.

About CAS AMSS-PolyU Joint Laboratory of Applied Mathematics

The CAS Academy of Mathematics and Systems Science (AMSS) and PolyU have complementary strengths in the areas of optimisation calculation, computational mathematics, and biological sciences. The State Key Laboratory in Science and Engineering Computing of AMSS is the only national level laboratory in the field. While PolyU's University Research Facility in Big Data Analytics aggregates big data on smart cities, financial technology and healthcare, which are valuable resources for data analysis modeling and testing of algorithm. The collaboration between AMSS and PolyU, through leveraging each other's competences and sharing research resources, can thus comprehensively cover the many directions of research in applied mathematics.

The CAS AMSS-PolyU Joint Laboratory of Applied Mathematics will focus on developing basic algorithms studies covering optimisation calculations, tensor calculations, multiphysics calculations, etc; research in applied statistics and financial mathematics; and further studies in the spectra of big data and artificial intelligence.

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Enquiry

Professor Xiaojun Chen
Director, CAS AMSS-PolyU Joint Laboratory of Applied Mathematics
Tel: 2766 6925
Email: maxjchen@polyu.edu.hk

Full English and Chinese press releases:

https://www.polyu.edu.hk/web/en/media/media_releases/index_id_6618.html
https://www.polyu.edu.hk/web/tc/media/media_releases/index_id_6618.html

Media Coverages

Online medias		
1.	新華網	https://goo.gl/aLuhDU
2.	Xinhua News (Eng.)	https://goo.gl/M6Cvye
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Newspaper | A13 | 香港新聞

Word Count: 801words | Image No: 1/1 | Image Size: 290cm-sq(23.6cm x 12.3cm) | Ad-Value: HKD18,781

Keyword Matched: 香港理工大學,理大

理大與中科院聯合實驗室揭幕

【香港商報訊】記者萬家成報道：香港理工大學(理大)與中國科學院(中科院)轄下兩所研究機構——數學與系統科學研究院及廣州地球化學研究所合作成立的「聯合實驗室」，昨日於理大校園進行揭幕典禮，象徵兩所聯合實驗室正式成立。兩所聯合實驗室將透過理大與中科院研究機構的優勢互補，在拓展科研前沿、知識轉移應用，以及人才培育方面相互協作，於應用數學及環境保護領域上，為大灣區及社會未來發展作出貢獻。

加強應用數學及環保領域協作

去年11月，特區政府宣布大學教育資助委員會將成立「聯合實驗室資助計劃」，撥款資助香港22所獲中科院認可的聯合實驗室，當中與理大合作成立的佔3所，包括理大與地球環境研究所於2013年成立的「氣溶膠與環境聯合實驗室」，以及昨天正式開幕的兩所聯合實驗室，分別為中科院數學與系統科學研究院－香港理工大學應用數學聯合實驗室；以及中科院廣州地球化學研究所－香港理工大學粵港澳大灣區環境污染過程與控制聯合實驗室。

據介紹，「應用數學聯合實驗室」未來將大力發展應用數學的演算法基礎研究，包括最優化計算方法、張量計算、多物理場計算等範疇；推動統計學和金融數學的理論和應用研究；以及進一步發展大數據、人工智能等領域的研究。至於「粵港澳大灣區環境污染過程與控制聯合實驗室」的未來重點研究範圍，包括：改善空氣質量、城市群的環境與健康、城市土地各種污染的綜合整治、新農村城市生活垃圾和污水的處理、河口與沿海地區的生態治理等。

昨日出席揭幕典禮的一眾嘉賓，包括：理大暫任校長陳正豪教授、中科院國際合作局局長曹京華、中科院數學與系統科學研究院常務副院長高小山、中科院廣州地球化學研究所所長徐義剛、中科院條件保障與財務局局長鄭曉年、中科院港澳台事務辦公室主任李芳芳、中科院預算制度處處長羅雯、理大副校長(科研發展)衛炳江、理大應用科學及紡織學院院長黃永德、理大建設及環境學院院長徐幼麟，以及合辦兩所聯合實驗室的中科院研究機構與理大院系的要員。

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Keyword Matched: 香港理工大學, 理大

理大與中科院聯合實驗室揭幕



一眾嘉賓出席理大與中科院兩所聯合實驗室的開幕典禮，見證了揭牌儀式。

【香港商報訊】記者萬家成報道：香港理工大學(理大)與中國科學院(中科院)轄下兩所研究機構——數學與系統科學研究院及廣州地球化學研究所合作成立的「聯合實驗室」，昨日於理大校園進行揭幕典禮，象徵兩所聯合實驗室正式成立。兩所聯合實驗室將透過理大與中科院研究機構的優勢互補，在拓展科研前沿、知識轉移應用，以及人才培养方面相互協作，於

應用數學及環境保護領域上，為大灣區及社會未來發展作出貢獻。

加強應用數學及環保領域協作

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所，包括理大與地球環境研究所於2013年成立的「氣溶膠與環境聯合實驗室」，以及昨天正式開幕的兩所聯合實驗室，分別為中科院數學與系統科學研究院—香港理工大學應用數學聯合實驗室；以及中科院廣州地球化學研究所—香港理工大學粵港澳大灣區環境污染過程與控制聯合實驗室。

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Sing Tao Daily | Circulation / Reach: 100,000 | 2019-01-29

Newspaper | A10 | 每日雜誌 | 維港會

Word Count: 311words | Image No: 1/1 | Image Size: 76cm-sq(7.8cm x 9.7cm) | Ad-Value: HKD10,936

Keyword Matched: 理工大學,理大

理大中科院 聯合實驗室揭幕

理工大學與中國科學院轄下兩所研究機構——數學與系統科學研究院及廣州地球化學研究所合作成立的「聯合實驗室」，昨日在**理大**校園進行揭幕典禮。兩所實驗室將通過**理大**與中科院研究機構的優勢互補，在拓展科研前沿、知識轉移應用，以及人才培育方面相互協作，於應用數學及環境保護領域上，為大灣區及社會未來發展作出貢獻。

理大暫任校長陳正豪昨表示，**理大**與中科院多年來在科研合作方面基礎深厚，今次再共同成立兩所新的聯合實驗室，「應用數學聯合實驗室」及「粵港澳大灣區環境污染過程與控制聯合實驗室」，不單是對**理大**的應用數學及環境科學專家研究成就的肯定，更將集合彼此的優勢，加強研究，配合國家發展，期望未來與中科院繼續合作，為香港和國家作出更多貢獻。

理大中科院 聯合實驗室揭幕

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