



# 月报 NEWSLETTER

正式封顶  
中心建设项目一期主体结构  
Main Building of the Centre Capped

中心成功举办  
首场研讨会及项目路演  
The 1st Seminar and Roadshow of  
the Centre Successfully Held

初大平教授荣获  
“高质量建设江北新主城特别贡献奖”  
Prof. Chu Awarded a Prize for Special  
Contribution to Jiangbei New Area



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# /08



# CONTENTS



## I Headlines

Main building of the Centre capped P01

The 1st Seminar and Roadshow of the Centre successfully held P02

Prof. Chu awarded a prize for special contribution to Jiangbei New Area P02

## II Research trends

DropBioApp Engineering droplet-based microfluidic platform for biological applications P03

Holographic interferometer for 3D surface profiling P03

High power density DC converters of 48V power supply systems used for datacentres P03

## III Work News

Teng Hongqing, Deputy Director of the Central Business District Management Office, visits the research laboratory of the Centre P04

Lin Qikun, Deputy Director of the Jiangbei New Area Management Committee, visits the Centre P04

Dong Chaolan from the Intellectual Property Office of the Science and Technology Innovation Bureau, Jiangbei New Area, visits the Centre to investigate intellectual property work P04

## IV Exchange and Cooperation

The Centre assists in donating PPE supplies to support Cambridge Hospitals P05

The Centre actively participates in activities of Nanjing Tech Week P05

Eil í s Ferran, Pro-Vice-Chancellor of the University of Cambridge, records a video message to congratulate the 5th anniversary of Jiangbei New Area P05

## V Talent Training

12 interns from prestigious universities join the Centre to assist in scientific research. P06

The Centre holds legal training on intellectual property P06

## Headlines

On June 29, the main structure of the first phase of the project of the Centre was officially capped. On the same day, over 50 guests including Ms. Chen Chanmei, member of the Party Working Committee of Nanjing Jiangbei New Area, and deputy director of the Management Committee of Nanjing Jiangbei New Area, Mr. Ding Jianhua, deputy inspector of the Nanjing Science and Technology Bureau, leaders of the relevant functional departments of Jiangbei New Area, all members of the Party Working Committee of the Central Business District of Jiangbei New Area, and leaders of the construction companies, attended the capping ceremony. Eilís Ferran, Pro-Vice-Chancellor of Institutional and International Relations at Cambridge University, and Professor Daping Chu, Tenured Chair Professor of Cambridge University and Academic Director of the Centre, expressed congratulations via videos.



# CAMBRIDGE UNIVERSITY



On July 24, the 2020 CUNJC Seminar on International Innovation and Scientific and Technological Achievement Transformation and Biomedical Healthcare and Medicine Project Roadshow, was successfully held. The event is guided by Nanjing Jiangbei New Area Management Committee, Nanjing Science and Technology Bureau, and hosted by Jiangbei New Area Science and Technology Innovation Bureau, Central Business District Construction and Management Office of Jiangbei New Area and the Cambridge University – Nanjing Centre of Technology and Innovation. Nearly 40 Chinese and foreign guests from Nanjing and Jiangbei New Area, the University of Cambridge, domestic universities, and well-known investment institutions attended the event, discussing the topics of international innovation and achievement transformation in the context of the new era.



This event deepened the interaction between the Centre, universities, enterprises and investment end, and was highly recognized by the guests. The guests agreed that this event fully embodies the internationalization and high-endization of scientific and technological innovation in Nanjing Jiangbei New Area. With a broad-minded and open attitude, the Centre will collaborate with superior resources at home and abroad to create a sustainable international scientific and technological model on innovation cooperation.

On June 24, the Fifth Anniversary and High-quality Development Conference of Nanjing Jiangbei New Area was held. The conference commended 10 companies and 10 individuals that have made outstanding contributions to promoting the high-quality construction of Jiangbei New Area. Professor Daping Chu, Academic Director of the Centre, was awarded the "Special Contribution Prize for High-quality Construction of Jiangbei New Area".



# NANJING

## Research trends

Combining with the industrial development direction of the New Area and Nanjing, the Centre have introduced the second batch of research projects from Cambridge University. After the approval of the academic committee and the board of directors, the three projects were successfully approved by the Centre in mid-June. At present, the projects have entered the preparatory stage, and some local cooperation team members have settled in the Centre to carry out preliminary work. The three projects are:



### DropBioApp Engineering droplet-based microfluidic platform for biological applications

Led by Professor Chris Abell, Pro-Vice-Chancellor (Research) of Cambridge University, the project relies on the Centre, and will build up a set of microfluidic facilities for the Centre including a microfluidic device fabrication workstation, a fluorescence detection rig, and microdroplet sorting capability. This can be used for microdroplets generation, materials synthesis, cell encapsulation, fluorescence sorting, etc.

### Holographic interferometer for 3D surface profiling

Led by Professor Daping Chu, Chair Professor of Cambridge University, Director of Cambridge Centre for Advanced Photonics and Electronics (CAPE) and the Centre for Photonic Devices and Sensors, the project relies on the Centre to explore the integration of pure phase liquid crystal on silicon (LCOS) technology into the interferometer to relax the tolerance of its hardware optical system, which is compensated by computer-generated holograms, thereby reducing equipment costs.



### High power density DC converters of 48V power supply systems used for datacentres

Led by Dr Long Teng, Lecturer of Cambridge University, the project relies on the centre and proposes a new type of DC-DC converter topology and its derivative structure, especially suitable for 48V DC power supply system. This structure improves the power density by at least 50% compared with the current switched capacitor structure, especially in the application scenarios of high voltage conversion ratio.

## Work News

On July 9, Lin Qikun, member of the Party Working Committee of Nanjing Jiangbei New Area and Deputy Director of the Management Committee, inspected the construction site of the first phase of the project of the Centre, visited the Centre's exhibition hall, and gave guidance and suggestions on the development of the Centre from five aspects: "establish long-term goals, attach importance to the transformation of results, strengthen talent training, and improve the liaison mechanism."



On July 3, Teng Hongqing, Deputy Director of the Central Business District Construction Management Office, Jiangbei New Area, visited the Centre to investigate the opening of the microfluidic project laboratory. The laboratory on the first floor of the Centre has completed construction and the experimental equipment has been installed and debugged. Researchers will be stationed in the near future to conduct research on microfluidic projects.



On July 24, Nie Yongping, Director of Science and Innovation Bureau of the New Area, Wang Yuanhua, Director of the International Cooperation Division of the Municipal Science and Technology Bureau, and Han Yunyun, Director of the Innovation System Office of the Science and Innovation Bureau of the New Area held a meeting with the Centre to conduct in-depth exchange on issues related to Centre's construction and development, and coordinate and explore solutions according to the guidance of the relevant meeting minutes of the municipal government.

On July 10, Director Dong Chaolan of the Intellectual Property Office of Jiangbei New Area Science and Technology Innovation Bureau, and Liu Lianzheng of the Intellectual Property Protection Centre visited the Centre to investigate intellectual property work. They gave detailed explanations on the pre-examination service and patent navigation service of the Intellectual Property Protection Centre, and conducted in-depth discussions on related patent value evaluation, intellectual property layout, and protection of technological achievements, and gave guidance to the Centre's intellectual property management work based on the actual situation of the Centre.





## Exchange and cooperation



From March to June, the Centre assisted 8 domestic institutions to donate PPE supplies to support Cambridge University Hospitals. The last batch of supplies arrived on June 29. The event was appreciated by Cambridge University Hospitals and received extensive attention from Cambridge alumni. Toope, the Vice-Chancellor of Cambridge University, expressed his gratitude publicly in the school-wide epidemic report. He said: "The Cambridge University - Nanjing Centre of Technology and Innovation is an important strategic International enterprise of the University, we are hugely grateful for its help and support."



"From June 22 to 26, the Centre actively participated in the activities of Nanjing Tech Week. The team of Prof. Daping Chu released the technology "New 3D Display Solution" and R&D progress at the online "Cool Technology" exhibition. The technology has overcome the "nausea and visual fatigue" usually caused by 3D devices, and is expected to bring a new AR experience."

Eilís Ferran, Pro-Vice-Chancellor of the University of Cambridge, recorded video messages for activities of the event, sharing the concept of green development and talent training experience.



In late June, Eilís Ferran recorded a video message for the fifth anniversary of the Jiangbei New Area. In the video, she expressed sincere congratulations on the construction achievements of the Jiangbei New Area and wished the new area to achieve success in the future development, and expressed affirmation of the long-term cooperation between Cambridge University and Nanjing and Jiangbei New Area. "



## Talent training



From July 1st, 12 interns from Tsinghua University, Southeast University, Nanjing University of Technology have joined the Centre, starting a two-month internship. They will assist the researchers in related project research.

On August 5th, the Centre held legal training on intellectual property with the theme of "Issues on Technology Patent Transfer and Case Sharing & PCT Patent Application". All staff members participated in the training to further improve the working skills of patent technology transfer and related patent applications.





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