





Vorld Cultural Council 5th V AWARD CEREMONY

8 November 2018

WELCOME MESSAGE

Professor Sir Colin BLAKEMORE *President, World Cultural Council*



The World Cultural Council (WCC) was founded in 1981 on the initiative of 124 distinguished academics and personalities from five continents who joined forces to promote the positive influence of science and culture. They were the first members of the WCC's Interdisciplinary Jury, which is currently composed of 250 members from 51 countries.

Since the awards were inaugurated in 1984, the "Albert Einstein" World Award of Science, the "José Vasconcelos" World Award of Education and the "Leonardo da Vinci" World Award of Arts have been presented at annual ceremonies hosted by top universities and academic institutions worldwide. The WCC is deeply grateful to City University of Hong Kong for hosting the first awards ceremony in China.

Over the years, our distinguished jury members have identified an impressive list of prizewinners, selected not only for their scientific, educational or artistic merits, but also for their contributions to the well-being of humanity and their qualities as role models who can inspire future generations.

Each annual awards event, which gathers top-level scientists, educators and researchers from around the world to celebrate the laureates' groundbreaking work, provides an opportunity for interaction, particularly through the Winners' Special Lectures for students, faculty and the public. The ceremony includes the presentation of Special Recognitions to a select group of young researchers nominated by the host institution, acknowledging their remarkable work at an early age.

The WCC will remain committed to recognising and rewarding excellence by granting awards to those individuals whose professional achievements are widely valued, and who contribute to advancing culture and mutual understanding, and to developing the next generation of leaders.

WELCOME MESSAGE

Professor Way KUO President, City University of Hong Kong

I am honoured to welcome you to City University of Hong Kong (CityU) for the 2018 World Cultural Council Award Ceremony. We are delighted to join the list of eminent institutions that have hosted the event in the past.

The World Cultural Council Awards are hugely influential. We resoundingly acknowledge the tireless efforts of the new awardees and their predecessors in advancing human culture and wellbeing.

This year the "Albert Einstein" World Award of Science and the "José Vasconcelos" World Award of Education will be presented. For us at CityU, these awards are especially meaningful because science and education are such core areas of interest for us. The development of new technology and knowledge creation is what spurs us on in terms of the scientific explorations and innovations in undergraduate curriculum design taking place on our campus today.

CityU is making a difference globally by pursuing excellence, promoting innovation and nurturing creativity that, like the "Albert Einstein" and "José Vasconcelos" awards, will bring about genuine benefits for humanity.



I am also delighted that some of the most exciting work at CityU has been initiated by young faculty. It is gratifying that they will share in the spotlight, too, during this event.

While you are in Hong Kong, I hope you will hear more about our teaching and research environment, just as we will learn a tremendous amount by hosting this inspirational event, interacting with and learning from the dynamic thinkers in attendance.

It is my deepest wish that CityU can contribute to the continued success of the WCC.

THE WORLD CULTURAL COUNCIL

The World Cultural Council (WCC) is an international organisation based in Mexico. Since 1984 the WCC has held an annual Award Ceremony granting prizes to outstanding scientists, educators and artists whose breakthroughs in the fields of knowledge, learning and research have contributed positively to the cultural enrichment of mankind.



AWARDS

Science

The annual "Albert Einstein" World Award of Science was created as a recognition for scientists whose scientific or technological achievements have brought progress and benefit to mankind. The laureate is selected by the Council's Interdisciplinary Committee, which is composed of highly acknowledged scientists from across the globe.



Education

The "José Vasconcelos" World Award of Education is granted to a renowned educator, an authority in the field of teaching, or someone who has brought about visionary development in education policy. Through his/her work, the individual or team should have had a significantly positive influence on the quality and reach of teaching and learning in our society. The prize is awarded every second year.

AWARD CEREMONIES

The WCC has been holding its Award Ceremonies since 1984. Each ceremony takes place in a different country/region, with a renowned university or institute acting as host. The Award Ceremonies have the dual function of encapsulating an international community of outstanding scientists, educators and artists while acknowledging the ethical dignity of the awardees.

Year	City	Country / Region	Institution
2018	Hong Kong	China	City University of Hong Kong
2017	Leiden	The Netherlands	Leiden University
2016	Riga	Latvia	Riga Technical University
2015	Dundee	UK	University of Dundee
2014	Otaniemi	Finland	Aalto University
2013	Singapore	Singapore	Nanyang Technological University
2012	Aarhus	Denmark	Aarhus University
2011	Tartu	Estonia	Tartu University
2010	Toluca	Mexico	Universidad Autónoma del Estado de México
2009	Liege	Belgium	University of Liège
2008	Princeton	USA	Princeton University
2007	Monterrey	Mexico	Universidad Autónoma de Nuevo León
2006	Mexico City	Mexico	Instituto Politécnico Nacional
2005	Saltillo	Mexico	Universidad Autónoma Agraria Antonio Narro
2004	Liege	Belgium	University of Liège
2003	Helsinki	Finland	University of Helsinki, Finnish Society of Sciences and Letters, and The National Archives of Finland
2002	Dublin	Ireland	University of Dublin
2001	Utrecht	The Netherlands	Utrecht University
2000	Johannesburg	South Africa	University of the Witwatersrand
1999	Trondheim	Norway	Norwegian University of Science and Technology
1998	Wellington	New Zealand	Victoria University of Wellington
1997	Bangkok	Thailand	Chulalongkorn University
1996	Oxford	UK	University of Oxford
1995	Mexico City	Mexico	INBA,CONACULTA, Palacio de Bellas Artes
1994	Chambery	France	CODATA, ICSU, UNESCO
1993	Mexico City	Mexico	Presidencia de la República
1992	Ottawa	Canada	National Research Council
1991	Canberra	Australia	Australian National University
1990	Zurich	Switzerland	Eidgenössische Technische Hochschule
1989	Cambridge	USA	Massachusetts Institute of Technology
1988	Mexico City	Mexico	Instituto Politécnico Nacional
1987	Heidelberg	Germany	Universität Heidelberg
1986	Guadalajara	Mexico	Universidad de Guadalajara
1985	Stockholm	Sweden	Royal Institute of Technology
1984	Monterrey	Mexico	World Cultural Council
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2018 "ALBERT EINSTEIN" WORLD AWARD OF SCIENCE



Professor Jean-Pierre CHANGEUX,

Emeritus Professor of Neuroscience at the Institut Pasteur and Collège de France has been selected as the winner of the 2018 "Albert Einstein" World Award of Science.

Professor CHANGEUX has been recognised for his exceptional scientific achievements and leadership in the field of neuroscience, and especially for his pioneering contributions to the science and understanding of neuroreceptors over the past 50 years. One of his groundbreaking discoveries revealed that the acetylcholine receptor as a model membrane receptor was one of the most central regulatory mechanisms in biology, leading to original insights concerning the chemistry of the brain and ultimately the brain-mind relationship.

The WCC jury acknowledged the significant impact that Professor CHANGEUX's research has had on healthcare and our understanding of human neural processes. His work on the mechanism of neural networks has narrowed the gap between molecular biology and cognitive sciences.

2018 "JOSÉ VASCONCELOS" WORLD AWARD OF EDUCATION



The 2018 "José Vasconcelos" World Award of Education will be granted to Professor Malik MÂAZA of the University of South Africa (UNISA) and at iThemba LABS-National Research Foundation, South Africa, and holder of the UNESCO-UNISA Africa Chair in Nanosciences and Nanotechnology, UNESCO.

The award acknowledges Professor MÂAZA's work in promoting education for societal development and sustainability, and recognises his international and humanistic approach to science education as well as his commitment to training and mentoring young scientists on the African continent. To this end, Professor MÂAZA has worked tirelessly to raise funds worldwide in support of researchers from less affluent countries. He has helped scientists from war zones in Africa and the Middle East pursue their research and has organised periodic exchanges between renowned scientists of Israeli and Arabic origin, seeking to build bridges through science.

The WCC jury was additionally impressed by Professor MÂAZA's promotion of female scientists in conservative communities.

CITYU FACTS AND ACHIEVEMENTS

With an emphasis on professional education and research, CityU encourages students to anticipate and precipitate change in a rapidly evolving, globalised world.

In recent years, CityU has performed strongly in university rankings: we are currently among the top 10 in Asia and the top 55 in the world. We are a fast-growing institution with passionate and diligent students and world-class academic staff in science and engineering, data science, business, creative media, law, the humanities and social sciences, energy and environment, and veterinary medicine and life sciences.

Our unique Discovery-enriched Curriculum (DEC), with its emphasis on innovation and creativity, informs all aspects of our professional education and problem-driven research. Supported by new learning spaces and facilities in new buildings, the DEC embodies CityU's strategic plans for a new era of growth.

CityU's proximity to, and close ties with, mainland China, as well as our international partnerships and outlook, make us ideally positioned to provide a dynamic learning and research environment for students and faculty from all over the world.

Worldwide Recognition

As a leading university, CityU is committed to extending the frontiers of knowledge within and beyond existing research disciplines in order to address pressing real-world problems.

Recent achievements in global rankings reflect the strength of our research, faculty, students and programmes. Seven faculty members were selected for the Highly Cited Researchers List by



CityU Subjects in QS Top 50 2018

(G) Linguistics
Communication & Media Studies
Social Policy & Administration
Oevelopment Studies
🖻 Business
D Mathematics
S Accounting & Finance
🛞 Statistics & Operational Research
😰 Engineering – Civil & Structural
Computer Science

* QS: Quacquarelli Symonds

Thomson Reuter in 2017, which was the second highest number in Hong Kong.

We don't believe research should be conducted in isolation and shared only within small professional circles. Rather, it should be seen by the public and have a positive impact on the world. Our three overarching research themes— One Health, Digital Society and Smart City were identified specifically for this purpose: to enhance our capacity to respond to the academic and societal challenges taking place in our highly interconnected world.

Hosting well-equipped research centres boosts the interdisciplinary nature of our research too. On campus we have two State Key Laboratories, one Chinese national engineering research centre, 20 other research centres and eight applied strategic development centres.





To develop and integrate interdisciplinary, problembased research collaborations and communications in all aspects of health-related issues.

Digital Society



To advance our economy, culture and society with the potential use of new technological development.

Smart City



To address global concerns about sustainable economic development, high quality of life, and harmony of the built environment with nature.

City University of Hong Kong Institute for Advanced Study

In addition, our Institute for Advanced Study (IAS) addresses the global challenges of today through innovative research conducted by more than 20 internationally acclaimed scholars, including Nobel Laureates and National Academicians appointed as IAS Senior Fellows and who work with and mentor research fellows and students at CityU.

WCC SPECIAL RECOGNITIONS 2018

Every year, the World Cultural Council grants special acknowledgements to young researchers or scholars of the host city or country / region who have achieved outstanding performance in the fields of science, education or arts.



Dr Ray CHEUNG Chak-chung

Associate Professor, Department of Electronic Engineering, City University of Hong Kong

Dr CHEUNG advocates campus-wide community-based learning at CityU, while promoting city-wide coding education. His CityU Apps Lab initiative has become one of the most influential student learning communities in Hong Kong. This interdisciplinary co-working space is entirely flexible and open to all, providing coding education, mobile app development, underwater robotics hardware designs, solar car designs and technical support for start-ups and the public. The Apps Lab equips students with skills and confidence for life, beyond just their academic focus.

Dr Johnny HO Chung-yin

Associate Professor, Department of Materials Science and Engineering, City University of Hong Kong

Dr HO has established an internationally recognized and multidisciplinary research programme focusing on the design and fabrication of novel device structures through nanomaterial innovations. His team develops schemes to manipulate, process and engineer various nanomaterials for new functionalities and properties for use in electronics, optoelectronics and sensors, along with energy-harvesting. Some of these materials or processes have already been transitioned to industry for further commercialization. Johnny has published over 125 articles in high-impact factor journals and he was recently elected as a founding member of The Young Academy of Sciences of Hong Kong.





Dr LAM Miu-ling

Associate Professor, School of Creative Media, City University of Hong Kong

Dr LAM is a practising media artist as well as an expert in robotics and emerging media technologies. She is recognized for her unique initiatives and exceptional contributions to pedagogy, curriculum design, research- and innovationinfused teaching and community outreach projects. She plays a pioneering role in fusing art and science together through her innovative and practice-focused courses, which successfully eliminate learning barriers and make scientific concepts accessible to the non-scientific mind. Dr LAM has also implemented learning platforms and workshops at university-level to facilitate learning outside the classroom, such as the Wearable Innovation Lab and TEDY (Technologies for the Elderly and Disabled), which furthermore cultivate social responsibility.

Dr Patrick LEE Kwan-hon

Associate Professor and Associate Dean, School of Energy and Environment, City University of Hong Kong

Dr LEE's research revolves around microbiology, striving to understand the functions of microbes in systems related to energy, environment and human health. Current projects include research on C1 metabolism for renewable energy and chemicals, indoor-built environment microbiology, the human microbiome, and microbial processes in the environment. Dr LEE has published over 50 peer-reviewed journal articles. He is passionate about teaching and has established a training programme enabling students to develop key professional skills to improve their employability.





Dr Eddie MA Chi-him

Associate Professor, Department of Biomedical Sciences, City University of Hong Kong

Dr MA's research combines mouse genetics, deep brain stimulation and animal behaviour approaches to develop strategies accelerating functional recovery. These include studies on neurodegenerative diseases such as Parkinson's disease, traumatic brain injury, and peripheral neuropathy. The scientific quality of his work is reflected in receiving significant external funding (over HKD 10 million), the CityU President Award and Croucher Foundation Fellowship. He has published research work in top-tier journals, and been invited speaker at international conferences. He serves as director to establish the first University-based animal research facility. He also has a keen interest in education and served as programme leader to develop an undergraduate degree programme for biological sciences students.

Dr SHI Peng

Associate Professor, Department of Biomedical Engineering, City University of Hong Kong

Dr SHI works at the convergence of neuroscience and nano/ microtechnologies. Using an interdisciplinary approach involving nano/micro-fabrication, microfluidics, ultra-fast optics, high-resolution microscopy and imaging processing, he focuses on solving problems in fundamental and translational neurosciences, especially the development of high-throughput neurotechnology and screening platforms for the discovery of novel chemicals or gene targets. At molecular and cellular level, he and his team leverage advances in technology to create sophisticated windows of observation that can ultimately address complex neuroscience problems.



Professor WANG Zuankai

Professor, Department of Mechanical Engineering, City University of Hong Kong

Professor WANG's research interests lie in the interfaces between engineering, materials, and physics. He has made seminal contributions to the fundamental understanding of the structure-function properties of biological systems and the creation of bio-inspired, topological structures and disruptive technologies to fundamentally change the fluidthermal-surface interfacial and transport processes, providing a new paradigm for materials discovery and implementation in the real world. His work has been recognized by the Guinness World Records, and highlighted in *Nature, Nature Physics, New York Times* and many other media coverages.





Dr ZHANG Xiaoling

Associate Professor, Department of Public Policy, City University of Hong Kong

Dr ZHANG is energetically building a strong reputation in the important field of regenerative sustainability, focusing on social and environmental sustainability. Representative publications include "*Turning green into gold*", "*Toward smart governance and social sustainability*" and the "*Centipede Game model*". Dr ZHANG has been recognized as an expert in sustainability science for built environments as well as sustainable urbanization in China. She is very active in the global conference circuit and has developed an impressive network of international collaborators.

Dr ZHENG Bo

Assistant Professor, School of Creative Media, City University of Hong Kong

Dr ZHENG is an artist, scholar and teacher committed to socially and ecologically engaged art. In "Sing for Her," his large-scale public artwork commissioned in 2015 and receiving over 500,000 visitors in Hong Kong, he collaborated with migrant and marginalized communities to advocate a multicultural future for Hong Kong. He is also well-known for his outstanding research projects, such as "Socially Engaged Art in Contemporary China" (seachina. net), as well as his multiple publications and lectures given worldwide.



PROGRAMME | 7 NOV 2018

Special Lecture by Professor Jean-Pierre CHANGEUX 2018 "Albert Einstein" World Award of Science winner

The acetylcholine nicotinic receptor: from chemistry to cognition

Time: 15:00 – 16:15

Venue: Senate Room, 19/F Lau Ming Wai Academic Building

Coffee Break 16:15 – 17:00

Special Lecture by Professor Malik MÂAZA 2018 "José Vasconcelos" World Award of Education winner

Nanosciences & Nanotechnologies: A multidisciplinary approach for a sustainable inclusive future for humanity

Time: 17:00 – 18:15

Venue: Senate Room, 19/F Lau Ming Wai Academic Building

PROGRAMME | 8 NOV 2018

Special Lecture by Professor Sir Colin BLAKEMORE President, World Cultural Council

How the brain creates the human mind

Time: 11:00 – 12:15

Venue: Senate Room, 19/F Lau Ming Wai Academic Building

2018 WCC Award Ceremony

- "Albert Einstein" World Award of Science
- "José Vasconcelos" World Award of Education
- Special Recognition to young Hong Kong researchers

Time: 16:30 – 18:30 (16:00 Open for registration)

Venue: Wong Cheung Lo Hui Yuet Hall, 5/F Lau Ming Wai Academic Building

Tea Reception after the Ceremony

For further information: www.cityu.edu.hk/2018-wcc



Please register your attendance for the Award Ceremony and the Special Lecture(s) at: *www.cityu.edu.hk/2018-wcc/rsvp*

For further information on the 35th Award Ceremony and programme, please visit: www.cityu.edu.hk/2018-wcc

For information on the World Cultural Council, please visit: www.consejoculturalmundial.org

Read more about City University of Hong Kong at: www.cityu.edu.hk

RSVP to *www.cityu.edu.hk/2018-wcc/rsvp*

Please confirm your attendance by 28 October 2018.