



Message from the President

Dear QCASE members and friends,

I am delighted to introduce the first QCASE Newsletter to provide our members and friends with an overview of the fantastic activities and extraordinary achievements of our members in 2015.

QCASE has undertaken important new initiatives and successfully completed many activities to support our members, increase our profile in Queensland and China, and promote scientific and technological collaboration between Australia and China.

In 2015, QCASE established an annual *Special Scientific Achievement Award* to honour Queensland scientists and engineers who have made exceptional contributions to science and technology through collaboration between Australia and China. Recipients of the 2015 award were Professor Ian Frazer and the late Dr Jian Zhou for their joint invention of the world's first vaccine against cervical cancer. The vaccine has been administered more than 125 million times in 121 countries, saving countless lives and also protecting many women from a protracted and painful course of treatment that involves surgery and chemotherapy. The QCASE award ceremony was held in the Queensland Parliament House on 18 November, at the Welcome Reception hosted by the Queensland Minister for Science and Innovation Leeanne Enoch, for Professor Yaping Zhang, Vice-President of the renowned Chinese Academy of Sciences (CAS) and his delegation. The award promoted an inspiring story of world class science, profound impact, and successful collaboration between Australia and China.

QCASE organised and supported a number of successful events including the Mid-Autumn Festival celebration at the Rocks Riverside Park in Brisbane on 27 September, attended by over 180 QCASE members, families and friends, and a training and development workshop "*How to publish your research results in top journals*" at the University of Queensland (UQ) on 20 October, attended by some 70 people.

QCASE, signed a Memorandum of Understanding (MOU) with the Northwest University of Nationalities (NWUN) on 20 July in Brisbane. The MOU includes a three-year scientific exchange program, mutual visits, academic workshops, collaborative research and publication. We secured NWUN's significant financial support for QCASE activities in China. This is the first time that QCASE has reached such an agreement with an organisation in China.

Currently, QCASE is organising an inaugural Australia-China Science, Technology and Innovation Forum in Brisbane in November 2016, in conjunction with the Federation of Chinese Scholars in Australia. The details will be announced in the near future and I would like to take this opportunity to invite you all to attend.



Dr Hua Guo

I am profoundly proud that many of our QCASE members are not only highly accomplished science and innovation leaders in Australia, but also hold key and unique positions in connecting science, technology and education between Australia and China. This newsletter highlights some of our members' exceptional achievements in 2015 and comprehensively demonstrates their leadership, influence and impact in Australia and beyond.

The appointment of Professor Max Lu, the QCASE Honorary President, as the President and Vice-Chancellor of the University of Surrey, the United Kingdom (UK) is inspirational, and follows an extremely successful career serving in positions that include UQ Provost and Senior Vice-President, Deputy Vice-Chancellor (Research) and Pro-Vice-Chancellor (Research Linkages). Professor Max Lu has also been a brilliant and visionary leader among Chinese scientists and engineers in Queensland and Australia over many years and in many roles, including the first President of the Federation of Chinese Scholars in Australia (2004-2006). Many of our colleagues have benefited from his generous support, wisdom, and advice. His leadership will surely be missed by all QCASE members and friends.

Professor Zhiguo Yuan, Director of The University of Queensland's Advanced Water Management Centre received the prestigious ATSE Clunies Ross Award for changing the water industry's capability and practices for sewer system management, and became subsequently an elected ATSE Fellow.

Professor Xue Li, the School of Information Technology and Electrical Engineering at the University of Queensland was honoured as one of the "top 50 most powerful people in Australia" by the Australian Financial Review on Big Data and for the accurate prediction of the 2015 Queensland election outcome.

This newsletter provides further information and covers many other outstanding achievements by our members.

I would like to congratulate, on behalf of QCASE, each and every member for their achievements in their respective roles and extend our best wishes to Professor Max Lu and his wife, Dr Lian Xiang Liu, for their new endeavours in the UK!

In closing, I would also like to take this opportunity to thank all members who so generously provided their time and ideas, among their busy daily work activities, during the year. It is your support and contributions that have made QCASE such a success in 2015. I must also acknowledge the important support from the Consulate General of the People's Republic of China in Brisbane, the Department of Science, Information, Technology and Innovation, Queensland, and the Voice of Australian Chinese International Media Group (VAC) for many of our QCASE activities.

I wish you and your families a healthy, happy and prosperous Chinese New Year, and I look forward to another exciting and successful year with QCASE.

Yours sincerely



Dr Hua Guo

President, Queensland Association of Chinese Scientists and Engineers.

Major Events in 2015

2015 QCASE Annual General Meeting

The 2015 QCASE annual general meeting (AGM) was held on 22 March at the University of Queensland (UQ) in Brisbane. The 6th QCASE President, Professor Jin Zou from UQ, reported the QCASE activities over the past two years. Election of the 7th QCASE Council members and QCASE President was also held. Dr Hua Guo, CSIRO Research Director - Coal Mining, was elected as the new QCASE president. At the request of QCASE, Professor Max Lu agreed to continue his role as QCASE Honorary President.

The elected 7th Council consists of 19 members from the University of Queensland (UQ) Queensland University of Technology (QUT), Griffith University (GU), University of South Queensland (USQ), Queensland Government, and the Commonwealth Scientific and Industrial Research Organisation (CSIRO).



7th QCASE Council members with consuls of the Consulate General of the PRC in Brisbane and Professor Max Lu

Front row (from left): Rita Dong, Wanlang Liu, Hua Guo, Yaoming Tian, Max Lu, Jin Zou, Anming Feng, Janet Hou Back row (from left): Lianzhou Wang, Hao Wang, Chaoqing Lu, Xingsheng Li, Chen Chen, Yin Xiao, Yuantong Gu, Wei Geng, Cheng Yan

The 7th QCASE Council consists of

Chairman: Jin Zou (UQ)

Members: Chen Chen (UQ), Rita Dong (DNRM, F), Yuantong Gu (QUT), Hua Guo (CSIRO), Janet Hou (QUT, F), Xingsheng Li (CSIRO), Yan Liu (UQ, F), Chaoqing Lu (UQ), Hao Wang (UQ), Lianzhou Wang (UQ), Jerome Wu (UQ), Yin Xiao (QUT), Cheng Yan (QUT), Liu Ye (UQ), Zhiguo Yuan (UQ), Mingxing Zhang (UQ), Baojun Zhao (UQ), Huijun Zhao (GU)

7th Executive Committee structure and members

The first Council meeting was held following the AGM on the same day, which resulted in the 7th Executive Committee structure and members as follows



QCASE Scientific Collaboration Achievement Award Ceremony

In 2015, QCASE established an annual special award to honour scientists and engineers in Queensland, who made exceptional scientific contributions through collaboration between Australia and China. The 2015 award was made to Professor Ian Frazer of UQ and the late Dr Jian Zhou, formally of UQ, for their joint invention of world's first vaccine against cervical cancer which has been administered over 125 million times in 121 countries and saved the lives of many women. The discovery and development of this vaccine is an impressive example of successful science collaboration between China and Australia.



Dr Hua Guo addressing the Welcome Reception and presenting the 2015 QCASE Award in the Queensland Parliament House

The award ceremony was held at Queensland Parliament House on 18 November as part of the Welcome Reception hosted by the Queensland Minister for Science, and Innovation Leeanne Enoch, for Professor Yaping Zhang, Vice-President of the renowned Chinese Academy of Sciences (CAS), and his delegation. Approximately 100 people, including Queensland government officials, senior delegates from CAS, Consul General of the Consulate General of PRC in Brisbane, UQ Vice-Chancellor, and QCASE representatives, were present.

At the Welcome Ceremony, QCASE president, Dr Hua Guo, delivered a speech and presented the “*Special Scientific Achievement Award*” to the Professor Ian Frazer and Ms Xiaoyi Sun, the widow of the late Dr Jian Zhou. Minister Leeanne Enoch, Professor Yanping Zhang, Consul General Yongchen Zhao, and other distinguished guests were part of this special award event and both the Queensland Government [Media Statements](#) and Australian Chinese Times (澳华时报 Issue 248) reported the event.



Ian Frazer and Xiaoyi Sun received the 2015 QCASE Award
(From left): Hua Guo, Geoff Garrett, Christine Williams, Yanping Zhang, Ian Frazer, Xiaoyi Sun, Leeanne Enoch, Yongchen Zhao, Jamie Merrick

Mid-Autumn Festival Celebration



2015 QCASE Mid-Autumn Festival Celebration at Rocks Riverside Park in Brisbane

On 27 September, QCASE organised a large scale event at Rocks Riverside Park in Brisbane to celebrate the Chinese Mid-Autumn Festival. Over 180 people including QCASE members, families and friends attended. Consul General Dr Yongchen Zhao was present at the event and extended season greetings and best wishes to everyone.

The event was reported in Australian Chinese Times (澳华时报).

Workshop – “How to publish your research results in top journals”

Supported by QCASE, a workshop was held at UQ on 20 October 2015 to help some 70 PhD students and early researchers publish their research results in high-impact journals.

A number of QCASE members, Professor Zhiguo Yuan, Professor Mingxing Zhang, Professor Ling Li and Professor Jin Zou shared their scientific writing skills.

This workshop was kindly sponsored by the Confucius Institute at UQ and the Education Section of the Consulate General of the PRC in Brisbane and was a great success.



Professor Jin Zou presenting at the
“How to publish your research results in top journals” Workshop

New QCASE Logo

In order to better promote QCASE in Australia and China, the 7th Executive Committee decided to re-design the QCASE logo. The design competition was called for within and outside QCASE and included an advertisement in the Australia Chinese Times (澳华时报). The entire design and selection processes took over two months to complete. A design from the CSIRO team was selected and endorsed by the QCASE Executive Committee and the new QCASE logo became effective from 1 November.



The new logo is made of two theme colours: Australian Flag blue and Chinese Flag red, symbolising the origin of Chinese scientists and engineers in Queensland, Australia, as well as bilateral collaboration between Australia and China. The logo, embracing the earth, also symbolises the global vision of QCASE.

Engagement and Collaboration with China in 2015

Memorandum of Understanding (MOU) signed between QCASE and the Northwest University of Nationalities, China

In July, QCASE organised and co-ordinated a visit by a high-level delegation from the Northwest University of Nationalities (NWUN), China, led by its Vice President Professor Li Zhengyuan.

Following extensive discussions between QCASE and NWUN, a MOU of Collaboration between NWUN and QCASE was signed by QCASE President Dr Hua Guo and NWUN Vice President Professor Li Zhengyuan on 20 July 2015 in Brisbane.

The two parties agreed on a three-year scientific exchange program, including mutual visits, academic workshops, collaborative research and publication. Each year, NWUN will invite eight QCASE members for a short visit to the NWUN.



NWUN delegates with QCASE Executives

Visit by Shandong Dongying Delegation

On 17 October, a high-level delegation from Dong Ying, Shandong, China, led by Vice Mayor Yang Mengshu, visited Brisbane as part of their overseas high-level talent recruiting campaign.

QCASE facilitated this visit and helped disseminate recruitment information to all QCASE members and friends. QCASE hosted a meeting at UQ between the delegation and QCASE senior members. QCASE Honorary President, UQ Provost and Senior Deputy Vice-Chancellor, Professor Max Lu, was present at the meeting.



Meeting between Dongying delegation and QCASE senior members

QCASE with Chinese National Centre for Biotechnology Development

QCASE has supported and contributed to various bilateral activities organised by the Queensland Government in 2015. For example, on 10 June, QCASE members attended a high-level networking event, hosted by the Minister for Science and Innovation of Queensland, Leanne Enoch to welcome a senior delegation from the Chinese National Centre for Biotechnology Development (CNCBD), Chinese Ministry of Science and Technology. The delegation was led by Professor Huang Jing, Director General of the CNCBD.



QCASE representatives with CNCBD delegation at the Ecosciences Precinct, Dutton Park

Engagement with Consulate General of the PRC in Brisbane

In 2015, QCASE actively engaged with the Consulate General of the PRC in Brisbane. Some of the engagement activities are highlighted below.



QCASE representatives with Dr Yongchen Zhao (5th from left) and Professor Max Lu (4th from left) at the Celebration Reception for the 66th Anniversary of the foundation of the PRC.

QCASE representatives attended the Consulate General Reception at the Sofitel Hotel Brisbane on 28 September to celebrate the 66th Anniversary of the foundation of the PRC.



QCASE representatives on Peace Ark

On 7 October, QCASE members attended the Welcome Function at the Port of Brisbane for the hospital ship of the Chinese Navy, known as Peace Ark. This was the ship's first visit to Australia and aimed to boost diplomacy, medical exchange and cultural communication.



QCASE representatives welcoming destroyer Jinan

On 2 January 2016, QCASE members together with over 500 people from various Brisbane Chinese communities, attended a function at the Port of Brisbane to welcome the destroyer Jinan, the frigate Yiyang, and the replenishment ship Qiandaohu to Brisbane.

Achievements of QCASE Members in 2015

2015 was a year of great achievements by QCASE members at their respective work places.

Professor Max Lu was appointed President and Vice-Chancellor of the University of Surrey, the United Kingdom (UK)

Professor Max Lu, the University of Queensland (UQ) Provost and Senior Deputy Vice-Chancellor, and QCASE Honorary President, was appointed by the University of Surrey, the UK, as its next President and Vice-Chancellor.

Professor Lu is the first Chinese to become the President of a top-ranking university in the western world.

Professor Lu's research expertise is in the fields of materials chemistry and nanotechnology.

He has published over 500 journal publications in high impact journals including Nature, J. Am. Chem. Soc., and co-invented more than 20 international patents. He is a Thomson Reuters Highly Cited Researcher in both Materials Science and Chemistry (with over 30,000 citations and h-index of 89), has received numerous awards nationally and internationally and was named one of the Top 100 Most Influential Engineers in Australia. He was named as a Queensland Great in 2013, and won the inaugural Australia-China Achievement Award (Education) in 2014.

Professor Lu has served on numerous government committees and advisory boards including those under the Prime Minister's Science, Engineering and Innovation Council and ARC College of Experts. He is the past Chairman of the Institution of Chemical Engineers (IChemE) Australia Board, and former Director of the Board of Australian Academy of Technological Sciences and Engineering (ATSE).

Professor Max Lu has been a brilliant and visionary leader among Chinese scientists and engineers in Queensland, and Australia over many years and in many roles, including the first President of the Federation of Chinese Scholars in Australia (2004-2006). Many of our colleagues have benefited from his generous support, wisdom, and advice in so many ways. His leadership will be missed by all QCASE members and friends.



Professor Zhiguo Yuan received the ATSE Clunies Ross Award and became a Fellow of ATSE

Professor Zhiguo Yuan, Director of UQ's Advanced Water Management Centre, received the Australian Academy of Technological Sciences and Engineering (ATSE) Clunies Ross Award. The Clunies Ross Award recognises outstanding achievements in the application of science and technology for the benefit of the wider community.

Professor Zhiguo Yuan won the award for his work over the past decade with sewer systems. His team has delivered fundamental solutions to corrosion and odour management in sewers, changing the water industry's capability and practices in managing this global problem. His innovative technologies have also helped save water providers hundreds of millions of dollars.

During 2015, Professor Zhiguo Yuan was also elected as a Fellow of ATSE. ATSE fellowships recognise Australia's leading minds in technology and engineering, and are awarded to people who apply technology in smart, strategic ways for social, environmental and economic benefit. This prestigious fellowship is a fitting acknowledgement of Professor Yuan's enormous contribution to the field of water management in Australia and internationally.



Professor Zhiguo Yuan

Professor Xue Li honoured as one of “the top 50 most powerful people in Australia” on Big Data by the Australian Financial Review (AFR)

Professor Xue Li, from the School of Information Technology and Electrical Engineering at UQ, was selected as one of “the top 50 most powerful people in Australia” on Big Data by the AFR - [the Power Issue 2015](#).

Gathering extremely large amounts of data that can be analysed is becoming a powerful force in society; identifying patterns and trends, providing insights into societal behaviour, and predicting outcomes. This was evident when a team led by Dr Xue Li used an algorithm to analyse more than 14,922 tweets and used word cloud associations to accurately predict the outcome of the 2015 Queensland election.

Professor Xue Li's major areas of research interests and expertise include: Data Mining, Social Computing, Database Systems, and Intelligent Web Information Systems.



Professor Xue Li

Professor Huijun Zhao won the Griffith Vice Chancellor's Research Excellence Award for Research Leadership

Professor Huijun Zhao is the Director of the Centre for Clean Environment and Energy and Deputy Director of the Environmental Futures Research Institute at the Griffith University Gold Coast Campus.

This well-deserved award recognises his prolific publication record in refereed journals and securing more than \$12 million in research funding, and his world renowned expertise in chemistry, energy and environmental materials.



Professor Huijun Zhao (right) with Griffith University Chancellor, Mr Henry Smerdon (left)



Dr Shi Su (left) and Brett Garland, ACARP's Chairman of the Board (right)

Dr Shi Su received the Australian Coal Association Research Program (ACARP) Research and Industry Excellence Award

Dr Shi Su, Senior Principal Research Scientist at CSIRO, received the ACARP Research and Industry Excellence Award in recognition of his work for advancing mining science in the area of ventilation air methane (VAM) and for his strong team management and mentoring of other researchers.

Every few years, ACARP recognises high achievers through their Excellence Awards. Given the competence of the science providers engaged in ACARP's 165 current research projects, it is a real accomplishment to win an ACARP Excellence Award.



Professor Chen Chen

Professor Chen Chen received the NHMRC-NSFC joint grant

Professor Chen Chen at UQ received the NHMRC-NSFC joint grant to study Biomarkers for the treatment and prognosis of sight-threatening diabetic retinopathy for 5 years.

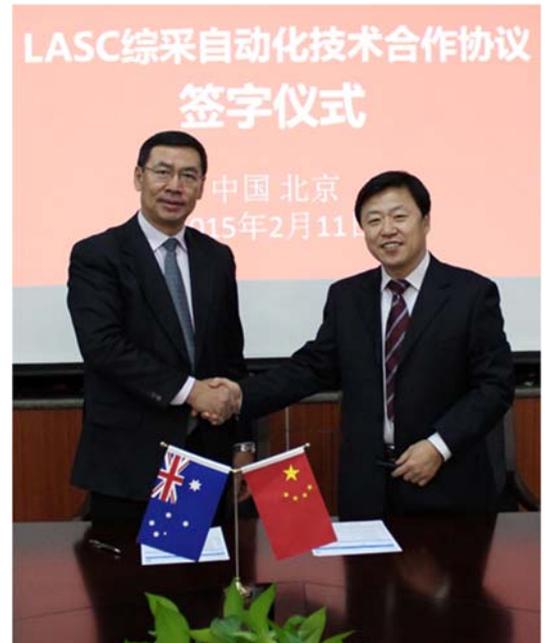
In 2013, National Natural Science Foundation of China (NSFC) and National Health and Medical Research Council (NHMRC) of Australia signed a Letter of Agreement of general cooperation to promote and encourage research and development activities amongst researchers from China and Australia. The two funding organisations will work together on health and medical research issues of mutual interest.

Dr Hua Guo secured new bilateral collaboration milestone

Dr Hua Guo, CSIRO Research Director Coal Mining, signed three major mining equipment and automation project agreements with the China Coal Technology & Engineering Group (CCTEG), the largest coal research and technology organisation in China. This was a major milestone in bilateral collaboration in advanced mining technology.

China is the largest coal producer in the world and responsible for approximately 50% of the global coal production. These projects will help China's massive coal industry to access world leading mining technologies and develop intelligent mining systems for Chinese coal mine conditions to significantly improve mining safety and efficiency.

Under Dr Hua Guo's leadership, CSIRO has developed long standing collaborative relationships with many Chinese mining companies, universities and research organisations. Over the last decade, Dr Hua Guo and his team at CSIRO have successfully carried out numerous projects in coal mining safety, mine methane control, capture, and utilisation in China, with total funding of over AUD\$6M from China alone.



(Left) Hua Guo, CSIRO Research Director Coal Mining and (Right) Leting Huang, Vice General Manager, Tiandi Science and Technology Co Ltd (a key subsidiary of CCTEG)

Other awards and special grants in 2015

- Professor Hao Wang, University of Southern Queensland (USQ) received the USQ Research Excellence Award.
- Professor Xiang-yu (Janet) Hou received the Queensland University of Technology (QUT) Vice Chancellor Performance Award.
- Associate Professor Hongxia Wang, QUT, was awarded the Queensland-Chinese Academy of Sciences grant on development of solar energy system (two grants each year for Queensland).
- Professor Hao Wang has received an award of "One Thousand Talent Program" for Zhejiang Province (2016-2018).

Promotions

- Shanqing (Eddie) Zhang, Griffith University (GU), was promoted from Associate Professor to Professor.
- Dr Hong Guan of School of Engineering, GU, was promoted from Associate Professor to Professor.
- Dr Cheng Yan, QUT, was promoted from Associate Professor to Professor.
- Dr Yonggang Jin, CSIRO, was promoted from Research Scientist to Senior Research Scientist.



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