



2019 AUSTRALIA-CHINA

Science, Technology, Commercialisation and Innovation Forum

2019 中-澳科技创新和产业化论坛



FORUM HANDBOOK

21-23 January 2019
Chongqing, China

WELCOME

2019中澳科技创新与产业化论坛主席

潘复生院士

欢迎词



作为本次“中澳科技创新与产业化论坛”大会主席，非常感谢来自中国、澳大利亚及海外各界的科学家和工程师们，以及大力支持本次论坛的社会各界人士！

2014年，中国国家主席习近平成功访澳并出席布里斯班二十国集团峰会，将中澳关系提升为全面战略合作伙伴关系。自此，中澳在不同层次建立起务实、高效的科技交流与合作机制。

2016年成功举办的“中澳科技创新与产业化论坛”是中澳科技创新合作进入“快速车道”的一次重大科技活动，双方嘉宾齐聚一堂，相互交流经验，探寻新的合作机遇，共谋创新与成果产业化发展，让我们感受到中澳科技创新合作的良好发展势头，备受鼓舞。2016年以来，中澳两国在医药卫生、环境、能源、新材料、农业、信息通讯技术等重点领域搭建起新平台，开展了众多富有成效的合作。

为了进一步深化中澳两国在科技创新领域的务实合作，共同探索建立健全的科技合作新机制、新模式，更快更好地促进中澳科技合作迈向新高度，本次论坛将从“资源与能源”、“土木与建筑”、“材料与制造”、“环境与生态”、“生物医药与健康”五个方面开展集中研究讨论。相信在中澳双方科学家和工程师们的共同努力和推动下，中澳科技创新各领域共谋良策、共献智慧，定能为推动双方经济和社会发展作出更大贡献。

最后，诚挚感谢为本次会议做出贡献的主办单位、承办单位和会务组的全体成员。预祝2019“中澳科技创新和产业化论坛”取得圆满成功，祝愿所有参会人员在美丽的山城重庆度过一段美好的时光！

2019中澳科技创新与产业化论坛主席 潘复生

重庆大学教授

中国工程院院士

重庆市科学技术协会主席

中国工程科技发展战略重庆研究院院长

WELCOME FROM DR HUA GUO, FORUM CO-CHAIR



On behalf of the Forum Organising Committee, it is my great pleasure to welcome you all to the 2019 Australia-China Science, Technology, Commercialisation and Innovation Forum.

Following the successful inaugural Forum in 2016, initiated and hosted by the Queensland Chinese Association of Scientists and Engineers (QCASE), the 2019 Forum is another highlight of our continuous commitment and solid action in promoting and supporting scientific and technological collaboration between Australia and China.

Innovation is of paramount importance to Australia and China. This Forum focuses on accelerating the application and commercialisation of our ideas and research outcomes, and exploring collaboration opportunities of mutual benefit to both nations in

- energy and resources
- civil engineering and construction
- advanced materials and manufacturing
- environment and ecology, and
- biomedicine and health.

The 2019 Forum is attended by more than 300 delegates representing governments, industry, science and technology agencies, and academia, and by some of the most outstanding and influential leaders in science and technology in Australia and China.

The ideas you generate and working relationships you build during the Forum will help realise the substantial opportunities that lie ahead.

I would like to sincerely thank the organisations and people involved in planning and organising the Forum for your contributions and hard work. I would also like to extend my deep appreciation to all speakers and sponsors for your contributions, and to the delegates for your participation.

Finally, I wish you all a very productive and enjoyable Forum in beautiful Chongqing!

预祝2019中澳科技创新和产业化论坛圆满成功!

A handwritten signature in blue ink, appearing to read 'G. Hua', with a stylized flourish at the end.

Dr Hua Guo 郭华

Forum Co-Chair

President, Queensland Chinese Association of Scientists and Engineers (QCASE)

Research Director, Coal Mining, CSIRO Energy, Australia



中华人民共和国驻布里斯班总领事馆

CONSULATE GENERAL OF THE PEOPLE'S REPUBLIC OF CHINA IN BRISBANE



贺 信

值此2019中澳科技创新与产业化论坛召开之际，我谨代表中华人民共和国驻布里斯班总领馆表示热烈祝贺。

近年来，中国与澳大利亚昆士兰州各领域务实合作日益增多，特别是联合研发、人才培养、产学研结合、成果转化等科技合作取得了较大进展。中昆高校、科研院所和企业建立了10多个中澳联合实验室、联合研究中心，科技部火炬高技术产业开发中心与昆士兰州签署了“昆士兰火炬健康与医药创新园”谅解备忘录。科技创新合作成为中澳、中昆务实合作的新亮点，为双边友好关系发展注入了新的活力。

本次论坛是继2016年首届中澳科技创新与产业化论坛召开以来的又一次科技盛会，对于促进中澳、中昆科技及经贸合作，进一步推动产学研结合及成果转化都具有积极意义。

我期待各位专家学者通过论坛深入交流，积极探索促进中澳、中昆科技创新合作及成果转化的新机制、新模式，让科技创新成果更好造福两国和世界人民。

本届论坛适逢在农历中国新年——猪年到来之际召开。我想借此机会向参加论坛的各位嘉宾致以美好的祝福，祝大家身体健康、万事如意、阖家幸福、新年快乐！

预祝本次论坛取得圆满成功！

中华人民共和国驻布里斯班总领事

徐杰 博士



中华人民共和国驻布里斯班总领事馆

CONSULATE GENERAL OF THE PEOPLE'S REPUBLIC OF CHINA IN BRISBANE

Congratulatory Message

On behalf of the Consulate General of the People's Republic of China in Brisbane, I extend my warm congratulations on the opening of 2019 China-Australia Science, Technology, Commercialization and Innovation Forum.

Recent years have seen increasing pragmatic cooperation between China and Queensland, Australia in many sectors. In particular, significant progress has been made in scientific and technological cooperation, including joint research and development, talent training, industry-academia-research integration and synergy, and the application of advances in science and technology. Chinese universities, research institutes and enterprises and their Queensland partners have established over 10 joint laboratories and research centres. The Torch High Technology Industry Development Centre under the Chinese Ministry of Science and Technology has signed a memorandum of understanding with the Queensland Department of Health and the Department of Environment and Science on Queensland Torch Health and Medicine Precinct. The collaboration in science, technology and innovation has become a new highlight of bilateral pragmatic cooperation, providing new impetus to develop the bilateral relationship.

This forum is another grand gathering of the Chinese and Australian research communities since the 2016 inaugural forum. It is of great significance in promoting China-Australia and China-Queensland cooperation on science, technology and trade, enhancing industry-academia-research synergy, and expediting research translation.

I hope that the delegates take full advantage of the forum to exchange ideas, explore new mechanism and new models for China-Australia and China-Queensland cooperation in science, technology, innovation and commercialization, and make research and innovation better benefit the people of our two countries and the world.

As the Chinese lunar new year is coming, I would like to take this opportunity to wish all participants and your families a healthy, happy and prosperous Year of the Pig!

I wish the Forum a great success!

Dr XU Jie, Consul-General

Consulate General of the People's Republic of China in Brisbane



A MESSAGE FROM THE QUEENSLAND GOVERNMENT'S REPRESENTATIVE OFFICE IN CHINA

Queensland has embarked on a journey to become one of the key innovation hubs in the Asia-Pacific region. Through our Advance Queensland initiative, the Queensland Government is focused on creating a strong and resilient knowledge-based economy, with science, innovation, creativity and entrepreneurialism at its core.

We know that the best way to achieve our goal is through collaboration between business and researchers across borders.

Collaboration is key when it comes to advancing innovation in science, technology and industry.

And China is one of our most valued partners.

Queensland has strong ties with China, with our scientific collaborations driving advances in agriculture and food, health and medical research, clean and renewable energy technology, and in advanced materials such as nano-technology and digital-enabled technologies.

The Second China-Australia Science, Technology, Commercialisation and Innovation Forum offers an opportunity to see how we can further consolidate our relationship, particularly around how best to translate our great ideas and breakthroughs into vaccines, medical devices, products and services, and accelerate their commercial availability for the benefit of both nations.

Forums such as this are critical for building important strategic research and commercialisation collaborations.

I commend the Forum organising committee for producing a comprehensive program with conference themes focused on our established research strengths and strategic collaborations in the areas of: energy and resources, advanced materials and manufacturing, environment and ecology, and biomedicine and health.

I'm confident that this second Australia-China Forum will help pave the way for innovative new collaboration and commercialisation opportunities between our two nations.

My best wishes for a very productive and enjoyable forum!

A stylized, handwritten signature in blue ink, consisting of several overlapping loops and lines.

Julie-Anne Nichols
Queensland Government Representative
Greater China - Senior Trade and Investment Commissioner
Trade and Investment Queensland



澳大利亚昆士兰州政府中国代表处来函

昆士兰已经踏上了成为亚太地区主要的创新中心之一的征程。通过“振兴昆士兰计划”，昆士兰州政府致力于创建一个以科学、创新、创造力和创业精神为核心的强大而富有弹性的知识经济体系。

我们知道，实现目标的最佳途径是企业和研究人员的跨国合作。

合作是推进科学、技术和工业创新方面的关键。

中国是我们最宝贵的合作伙伴之一。

昆士兰与中国有着紧密的联系，我们的科学合作推动了农业和食品、健康和医疗研究、清洁和可再生能源技术以及纳米技术和数字技术等先进材料的进步。

第二届中澳科技商业化和创新论坛为我们提供了一个机会，让我们看到如何进一步巩固两国之间的关系，特别是在探讨如何将我们的创意和想法转化为疫苗、医疗器械、产品和服务并加速实现它们的商业可用性，为两国人民带来福祉。

此类论坛对于建立重要的战略研究和商业化合作至关重要。

对于论坛组委会制定这样一个集能源与资源、先进材料与制造、环境与生态、生物医药与健康等领域的研究优势和战略合作各项主题于一体的综合性论坛计划，我表示由衷的赞叹。

我相信，第二届澳中论坛将为两国创新和商业化合作创造良好的机遇。

衷心祝愿论坛取得圆满成功！

朱莉

昆士兰州政府贸易投资厅 - 大中华区首席代表

CONTENT

WELCOMES	2
ABOUT THE FORUM	11
FORUM HOSTS AND ORGANISERS	12
FORUM COMMITTEES	13
BRIEF FORUM SUMMARY	14
PROGRAM SUMMARY	15
FORUM FLOOR PLAN	16
CONFERENCE SPEAKERS	17
Plenary Speakers	17
Energy and Resources Session Speakers	18
Civil and Construction Session Speakers	19
Advanced Materials and Manufacturing Session Speakers	20
Environment and Ecology Session Speakers	21
Biomedicine and Health Session Speakers	22
PROGRAM	24
Day 1 - Registration	24
Day 2 - Plenary Session Program	25
Day 3 - Parallel Session Program	26
Energy and Resources	26
Civil and Construction	27
Advanced Materials and Manufacturing	28
Environment and Ecology	29
Biomedicine and Health	30
GENERAL INFORMATION	33

ABOUT THE FORUM



The inaugural China – Australia Science, Technology, Commercialisation and Innovation Forum was held in two sessions; Brisbane, Queensland 27 – 30 November 2016 and Perth, Western Australia 2 – 6 February 2017 respectively.

The Brisbane session was initiated and organised by the Queensland Chinese Association of Scientists and Engineers (QCASE) under the framework of the Memorandum of Understanding between the Queensland Government and Ministry of Science and Technology of the People's Republic of China on science and technology cooperation. Nearly 300 representatives and experts from Chinese and Australian governments, enterprises and scientific institutions attended the Forum. The Hon Leeanne Enoch MP, Minister for Innovation, Science and the Digital Economy and Minister for Small Business, Queensland Government, and Dr Yongzhen Zhao, Consul General of the People's Republic of China in Brisbane, attended the Forum and delivered welcome speeches. Fourteen Chinese and Australian academicians delivered a series of keynote speeches, including Prof Tieniu Tan, Academician and Vice President of Chinese Academy of Sciences, and Prof Ian Frazer AC, Fellow of the Australian Academy of Science, Fellow of the Australian Academy of Technological Sciences and Engineering, and recipient of Australian of the Year in 2006 and the Prime Ministers Prize for Science in 2008. Senior representatives of large enterprises such as Huawei Group and Rio Tinto delivered important speeches on technology innovation and China-Australia cooperation.

The Perth session was organised by the Western Australian Chinese Scientists Association, co-organized by Curtin University, University of Western Australia and Murdoch University, and supported by the Beijing University of Technology, Chongqing University, Hebei University of Technology, Jiangsu Academy of Agricultural Sciences, Curtin Business School, the Government of Western Australia, Perth City Council and Tianqi Lithium. Nearly 250 experts and scholars from China and Australia attended.

The Forum in Brisbane and Perth achieved significant results with a number of cooperation agreements signed and cooperative intentions agreed. The Forum was reported by important media, including CCTV Channel 4, Phoenix TV, People's Daily and People's Daily Online.

The Second Forum will be held in Chongqing, China, 21 – 23 January 2019.

HOSTS AND ORGANISERS

HOSTS

- *Chinese Academy of Engineering (CAE)*
- *Chongqing University (CQU)*
- *Chongqing Academy of S&T for Development (CAST)*
- *Queensland Chinese Association of Scientists and Engineers (QCASE)*
- *Western Australian Chinese Scientists Association (WACSA)*
- *Commonwealth Scientific and Industrial Research Organisation (CSIRO)*
- *Griffith University*

ORGANISERS

- *Faculty of Engineering, Chongqing University*
- *State Key Laboratory of Coal Mine Disaster Dynamics and Control*
- *State Key Laboratory of Power Transmission Equipment & System Security and New Technology*
- *National Engineering Research Center for Magnesium Alloys*
- *Key Laboratory of New Technology for Construction of Cities in Mountain Area*
- *Key Laboratory of the Three Gorges Reservoir Region's Eco-Environment, Ministry of Education*
- *State Key Laboratory of Coking Coal Exploitation and Comprehensive Utilization*
- *Chongqing Institute of Geology & Mineral Resources*
- *State Key Laboratory of Gas Disaster Detecting, Preventing and Emergency Controlling*
- *State and Local Joint Engineering Laboratory for Vascular Implants*

CO-ORGANISERS

- *Sichuan University*
- *Wuhan University*
- *The University of Science and Technology Beijing*
- *China University of Mining & Technology, Beijing*
- *China University of Mining & Technology*
- *Hebei University of Technology*
- *Anhui University of Science and Technology (AUST)*
- *Liaoning Technical University*
- *Xi'an University of Science and Technology*
- *Shandong University of Science and Technology*
- *State Key Laboratory of Mechanical Transmissions*
- *China Coal Research Institute*
- *Chongqing Coal Society*
- *Key Laboratory of Biorheological Science and Technology, Ministry of Education*
- *The Federation of Chinese Scholars in Australia (FOCSA)*
- *Western Australian Chinese Engineers Association (WACEA)*

FORUM COMMITTEES

COMMITTEES

Advisory Committee

Deepak Adhikary, Andrej Atrens, Merched Azzi, Rao Balusu, John Bell, Nick Birbilis, Nicholas Buys, Meifeng Cai, Ismet Canbulat, Steve Chen, Yunmin Chen, Matthew Dargusch, Mark Dunn, Shixiong Deng, Ian Dover, Yanliang Du, Baoyan Duan, Yubo Fan, Weicheng Fan, Xiaonan Gong, Desheng Gu, Daozhao Gu, Jincai Gu, Huawu He, Manchao He, Wei Huang, Ailong Huang, Mike Hood, Hongpu Kang, Seth Kuni, Gensheng Li, Sibai Li, Xiaohong Li, Wenzhao Liang, Ruijin Liao, Zhenpeng Liao, Feng Liu, Pingya Luo, Mike O'Brien, Suping Peng, Yongzhen Peng, Minggao Qian, Qiuhu Qian, Aici Qiu, Jiuhui Qu, Huiqi Ren, Nanqi Ren, Sheena Reilly, Yinao Su, Fuming Wang, Guofang Wang, Zhengguo Wang, Yuanbin Wu, Qiang Wu, Zhining Xia, Xuefu Xian, Heping Xie, Lili Xie, Peng Xie, Xiao Xu, Shizhong Yang, Xiumin Yang, Yongbin Yang, Liang Yuan, Zhiguo Yuan, Jie Zhang, Tiegang Zhang, Zongyi Zhang, Jianlong Zheng, Shusen Zheng, Yingren Zheng, Fengjun Zhou, Fulin Zhou, Shining Zhou, Xuhong Zhou

Co-Chairs

Fusheng Pan, CAE, CQU and CAST
Hua Guo, CSIRO and QCASE

Vice Co-Chairs

Hanlong Liu, CQU
Heping Xie, CAE, Shengzhen University
Liang Yuan, CAE, AUST
Deyi Jiang, CQU
Sanping Jiang, WACSA
Xingsheng Li, CSIRO and QCASE

BRIEF FORUM SUMMARY

FORUM VENUE

Kempinski Hotel Chongqing, Chongqing, China.

Address: No.2 Jiangnan Avenue, Nanan Qu, Chongqing 400060, China

Email: <http://39421.hotel.cthy.com/>

Phone: +61 7 3835 3535

CONTACTS

General inquiries

Dr Xingsheng Li (Australia)

Email: xing.li@csiro.au

Phone: +61 7 3327 4634

Prof. Yunpei Liang (China)

Email: liangyunpei@cqu.edu.cn

Phone: +86 135 9460 8029

Session inquiries:

- **Energy and Resources**

Yunpei Liang +86 15736088367, liangyunpei@cqu.edu.cn

Xingsheng Li +61 7 3327 4634, xing.li@csiro.au

- **Civil and Construction**

Wengang Yan +86 15736088367

Hong Guan +61 410 828 746, h.guan@griffith.edu.au

- **Advanced Materials and Manufacturing**

Jun Tan +86 13888021632, j.tan@cqu.edu.cn

Yuan Yuan +86 18223591217, yuanyuan17@cqu.edu.cn

Mingxing Zhang +617 334 68709, mingxing.zhang@uq.edu.au

- **Environment and Ecology:** Prof Chen Chen

Li Gu +86 13896132757

Fengwen Wang +86 18323361056

Yao Chen +86 13594172768

Shaobin Wang shaobin.wang@adelaide.edu.au

- **Biomedicine and Health:**

Yidan Chen +86 13983293280

Jianzhi Zhou +86 15902399317

Julia Zhong +86 15802371097

Jing Sun +61 7 567 80924, j.sun@griffith.edu.au

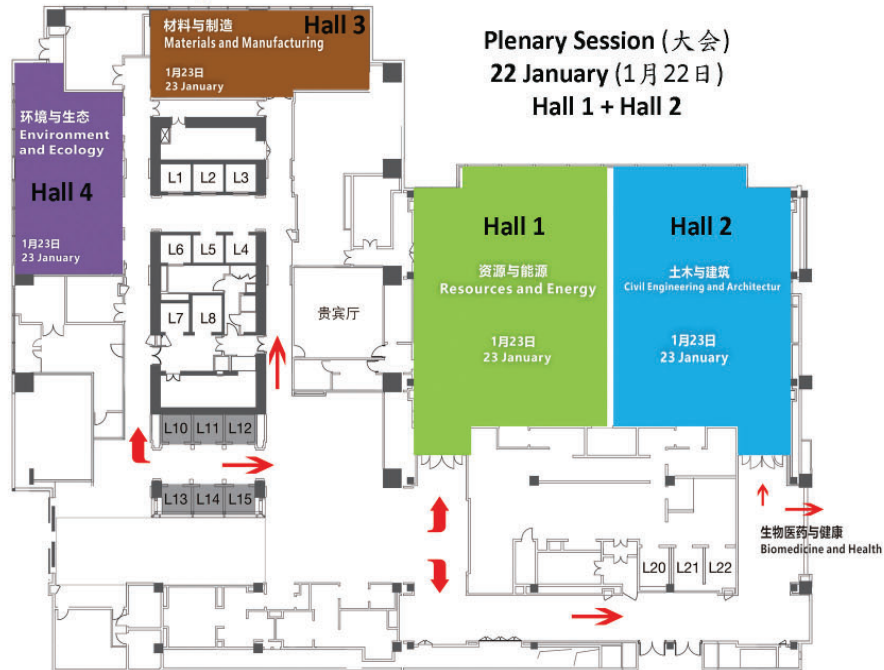
PROGRAM SUMMARY

TIME	ACTIVITY	VENUE
DAY 1 - MONDAY 21 JANUARY 2019 REGISTRATION		
9:00 am – 9:00 pm	Registration	Level 1 Lobby, Kempinski Hotel Chongqing
DAY 2 - TUESDAY 22 JANUARY 2019 PLENARY SESSION		
8:00 am – 6:00 pm	Registration	Level 1 Lobby, Kempinski Hotel Chongqing
9:00 am – 5:55 pm	Plenary Session	Hall 1 & 2, Level 3, Kempinski Hotel Chongqing
DAY 3 – WEDNESDAY, 23 JANUARY 2019 PARALLEL SESSIONS		
8:00 am – 2:00 pm	Registration	Level 1 Lobby, Kempinski Hotel Chongqing
9:00 am – 5:45 pm	Energy and Resources	Hall 1, Level 3, Kempinski Hotel Chongqing
9:00 am – 5:30 pm	Civil Engineering and Construction	Hall 2, Level 3, Kempinski Hotel Chongqing
9:00 am – 5:30 pm	Advanced Materials and Manufacturing	Hall 3, Level 3, Kempinski Hotel Chongqing
8:40 am – 5:30 pm	Environment and Ecology	Hall 4, Level 3, Kempinski Hotel Chongqing
8:15 am – 6:10 pm	Biomedicine and Health	Hall 5, Level 4 (Access from Level 3), Kempinski Hotel Chongqing

FORUM FLOOR PLAN

Kempinski Hotel Chongqing (重庆凯宾斯基酒店)

Level 3 (三楼)



Level 4 (四楼)



CONFERENCE SPEAKERS

PLENARY SPEAKERS



Prof. Heping Xie
Academician of CAE, Dean,
Institute of Deep Science and
Green Energy, Shenzhen
University, China



Prof. Mike Hood
Chair of Queensland Division
of The Australian Academy of
Technology and Engineering
(ATSE), Australia



Prof. Meifeng Cai
Academician of Chinese
Academy of Engineering,
Beijing University of Science
and Technology, China



Prof. Seth Kunin
Deputy Vice-Chancellor
International, Curtin University,
Australia



Dr Leting Huang
Vice General Manager, Tiandi
Science and Technology, China



Prof. Wei Wang
Pro-Vice-Chancellor (China) of
Edith Cowan University (ECU),
Western Australia, Australia



Prof. Shirong Ge
President, China University of
Mining & Technology, Beijing,
China



Prof. Zhiguo Yuan
PhD, FTSE, IWA Distinguished
Fellow, ARC Australian
Laureate Fellow, Director,
Advanced Water Management
Centre, The University of
Queensland, Australia



Prof. Steve Chen
Member of the National
Academy of Engineering
and Fellow of the American
Academy of Arts and Sciences,
USA



Prof. John Bell
Head of School of Chemistry,
Physics and Mechanical
Engineering, Queensland
University of Technology,
Australia

ENERGY AND RESOURCES SESSION SPEAKERS



Prof. Aixiang Wu
Vice President of Beijing
University of Science and
Technology, China



Dr. Hua Guo
Research Director, Coal Mining,
CSIRO Energy, Australia



Prof. Guangcai Wen
Vice General Manager, State Key
Laboratory of Gas Disaster
Detecting, Preventing and
Emergency Controlling, China



Prof. Ismet Canbulat
Kenneth Finlay Chair of Rock
Mechanics, Teaching and
Learning Committee UNSW
Engineering, Australia



Jianjun Tian
General Manager of CITIC
SMCC Process Technology,
Australia



Prof. Jiachen Wang
Vice President, China University
of Mining & Technology, Beijing,
China



Dr. Binzhong Zhou
Senior Principal Research
Geophysicist, CSIRO Energy,
Australia



Prof. Jianchun Guo
Vice President, Southwest
Petroleum, China



Prof. Ting Ren
University of Wollongong,
Australia



Prof. Baiquan Lin
China University of Mining &
Technology, Xuzhou, China



Prof. Yiyu Lu
Director of State Key Laboratory
of Coal Mine Disaster Dynamics
and Control, Chongqing
University, China



Prof. Chunan Tang
Changjiang Scholar, Dalian
University of Technology, China



Prof. Fubao Zhou
Director of Human Resources,
China University of Mining and
Technology, Xuzhou, China



Prof. Jingdao Fan
Shanxi Yanchang Petroleum
Group, China, China



Prof. Hongwei Zhou
China University of Mining &
Technology, Beijing, China

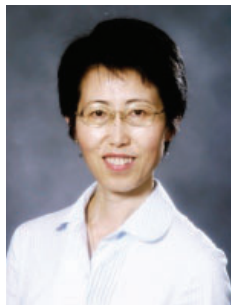


Prof. Baisheng Nie
China University of Mining &
Technology, Beijing, China

CIVIL AND CONSTRUCTION SESSION SPEAKERS



Prof. Guiwen Liu
Chongqing University, China



Prof. Hong Guan
School of Engineering and Built Environment, Griffith University, Australia



Prof. Jianbo Zhu
Tianjin University, China



Prof. Shanyong Wang
ARC Future Fellow, School of Civil Engineering, Newcastle University, Australia



Prof. Dong Wang
Ocean University of China, China



Prof. Gaofeng Zhao
School of Architecture and Engineering, Tianjin University, China



Dr. Weifeng Yuan
Southwest University of Science and Technology, China



Prof. Yue Liang
Chongqing Jiaotong University, China



Prof. Baobin Gao
Institute of Technology of Henan, China



Dr. Sen Lin
Hebei University of Technology, China



Dr. Bolin Chen
Chongqing Institute of Geology and Mineral Resources, China

ADVANCED MATERIALS AND MANUFACTURING SESSION SPEAKERS



Prof. Mingxing Zhang
School of Mechanical and Mining
Engineering, The University of
Queensland, Australia



Prof. Hao Wang
School of Mechanical and Electrical
Engineering, University of Southern
Queensland, Australia



Prof. Tianlin Huang
Chongqing University, China



Prof. Liming Peng
Shanghai Jiaotong University,
China



Prof. Zhenyi Jiang
Wollongong University, Australia



A/Prof. Guoqiang You
Chongqing University, China



Prof. Jingfeng Wang
Chongqing University, China



Prof. Yafeng Yang
Institute of Process Engineering,
Chinese Academy of Sciences,
China



Dr. Xiaobo Chen
School of Engineering Cluster,
RMIT University, Australia



Dr. Yu Zhang
Chongqing University, China



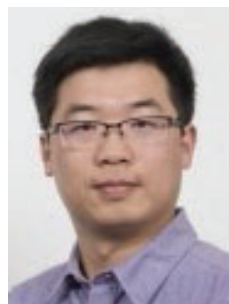
Prof. Mingbo Yang
College of Materials Science
and Engineering, Chongqing
University of Technology, China



Prof. Qiang Wang
Xian University of Architecture
and Technology, China



Prof. Han Huang
School of Mechanical and
Mining Engineering, The
University of Queensland,
Australia



Prof. Guang Han
Chongqing University, China



A/Prof. Qingshan Yang
Chongqing University of
Science and Technology, China

ENVIRONMENT AND ECOLOGY SESSION SPEAKERS



Prof. Xiaochang Wang
XI'AN University of Architecture
and Technology, China
University



Prof. Hongqi Sun
Edith Cowan University,
Australia



Prof. Philip Kwong
Executive Director, Institute of
Health Biomedical Innovation,
Australia



Prof. Bingcai Pan
Nanjing University, China



Prof. Shaobin Wang
University of Adelaide, Adelaide,
Australia



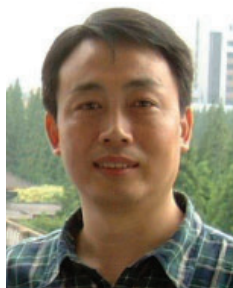
Prof. Guanyi Chen
Tianjin University, China



Prof. Hong Zhang
Griffith University, Australia



Prof. Laichang Zhang
Edith Cowan University,
Australia



Prof. Xingzhong Yuan
Chongqing University, China



Prof. Xingcan Zheng
North China Municipal
Engineering Design & Research
Institute Co.Ltd, China



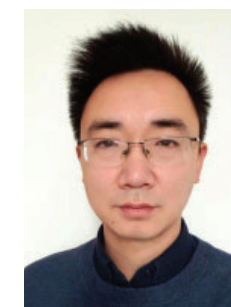
Prof. Chenghua Sun
Swinburne University of
Technology, Australia



Prof. Danyu Xu
Association of Environmental
Protection, China



Dr. Chunyan Fan
Curtin University, Australia



Prof. Gang Luo
Fudan University, China



Prof. Yi Chen
Chongqing University, China

No photos provided for

Prof. Jun Ma, Harbin
Institute of Technology

Prof. Peili Lu, Chongqing
University

Prof. Hong Li, Chongqing
University

BIOMEDICINE AND HEALTH SESSION SPEAKERS



A/Prof. Jing Sun
School of Medicine, Griffith
University, Australia



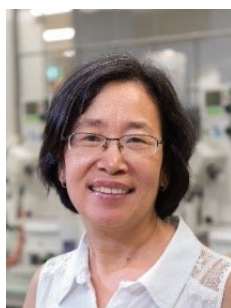
Prof. Zhan-Jiang Li
Deputy Director of Beijing
Anding Hospital, Capital Medical
University, China



Dr. Carl De Wet
UGP Liaison Unit, Centre for
Health Innovation, Gold Coast
University Hospital, Australia



Prof. George Mellick
Head of the School of
Environment and Science, at
Griffith University, Australia



A/Prof. Yunjiang Feng
Principal Investigator, Griffith
Institute for Drug Discovery
(GRIDD), Australia



Prof. Wei Wang
Pro-Vice-Chancellor (China)
of Edith Cowan University,
Australia



Brentyn Parkin
Executive Director, Queensland
Community Service, Australia



Prof. Xue Li
The University of Queensland,
Australia



Prof. Yuanyuan Mi
College of Medicine, Chongqing
University, China



Prof. Cheng-Hong Yin
Director of Beijing Obstetrics
and Gynecology Hospital,
Beijing, China



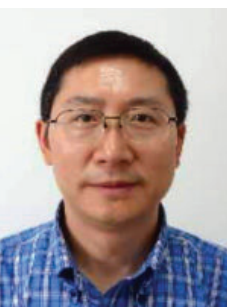
A/Prof. Ming Li
Department of Pediatrics, First
Hospital of Peking University,
China



A/Prof. Yuanyuan Wang
National Research Institute for
Family Planning, China



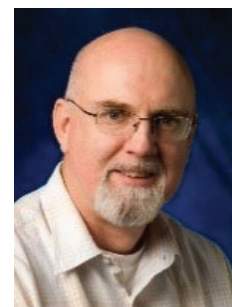
Li Cai
Lecturer, School of Public
Health, Sun Yat-sen University,
China



Prof. Yong Liao
Chongqing Medical University,
China



Jianping Xie
School of Life Sciences,
Southwest University, China



Prof. John Hooper
Mater Research Institute, The
University of Queensland,
Australia



Prof. Hans Gregersen
Prince of Wales Hospital,
The Chinese University of
Hong Kong



A/Prof. Vivi Kasim
School of Bioengineering,
Chongqing University,
China



Prof. Julia Li Zhong
Medical College &
Bioengineering College,
Chongqing University, China

FOLLOWING SPEAKERS WITH NO PHOTOS PROVIDED

Prof. Cheng Qian, Medical College & Cancer Hospital, Chongqing University, China

Yuanbin Wu, Director, Department of Science and Technology, China

Prof. Yuguang Shi, Professor, San Antonio Medical Center, University of Texas, USA

Prof. Feng Xu, Vice-Dean of Life College, Xi'an Jiaotong University, China

Yizhou Li, Principal Investigator, College of Pharmacy, Chongqing University, China

Prof. Zhong Luo, College of Life and Sciences, Chongqing University, China

PROGRAM DAY 1 - REGISTRATION

MONDAY 21 JANUARY 2019

TIME	ACTIVITY	VENUE
9:00 am – 9:00 pm	Registration	Level 1 Lobby, Kempinski Hotel Chongqing (the Forum venue)
12:00 – 2:00 pm	Buffet Lunch	Western Restaurant, Level 2, Kempinski Hotel Chongqing
6:00 – 9:00 pm	Buffet Dinner	Western Restaurant, Level 2, Kempinski Hotel Chongqing

PROGRAM DAY 2 - PLENARY SESSION PROGRAM

TUESDAY 22 JANUARY 2019

VENUE: HALL 1+HALL 2, LEVEL 3, KEMPINSKI HOTEL CHONGQING

TIME	TITLE	SPEAKER
OFFICIAL OPENING - CHAIRED BY PROF. DEYI JIANG, DEAN, COLLEGE OF RESOURCES AND ENVIRONMENTAL SCIENCE, CHONGQING UNIVERSITY		
9:00 – 9:05 am	Introduction of the Forum and VIP	Prof. Deyi Jiang, Dean, College of Resources and Environmental Science, Chongqing University
9:05 – 9:10 am	Welcome	Prof. Dan Yang, Executive Vice President, Chongqing University, China
9:10 – 9:15 am	Co-chair's Welcome	Dr. Hua Guo, Research Director, Coal Mining, CSIRO Energy, Australia
9:15 – 9:20 am	Welcome from Chinese Academy of Engineering (CAE)	TBA
9:20 – 9:25 am	Message from Australian Government	Mr. Tim White, Trade and Investment Commissioner, Austrade Chengdu, Australia
9:25 – 9:30 am	Message from Chongqing Municipal People's Government	TBA
9:30 – 9:35 am	Co-chair's Welcome	Prof. Fusheng Pan, Academician, Chinese Academy of Engineering (CAE), President, Chongqing Academy of Science and Technology, China
9:35 – 9:55 am	Group Photograph — all attendees	
SESSION 1 – CHAIRED BY PROF. ZHIGUO YUAN, THE UNIVERSITY OF QUEENSLAND, FELLOW OF THE AUSTRALIAN ACADEMY OF TECHNOLOGY AND ENGINEERING (ATSE)		
9:55 – 10:25 am	Prospection and Progress of Deep Earth Scientific Research	Prof. Heping Xie, Academician, Chinese Academy of Engineering (CAE), Shenzhen University, China
10:25 – 10:55 am	Maximising the Chances of Commercialising New Technologies: University-Industry Collaboration	Prof. Mike Hood, Chair of Queensland Division of the Australian Academy of Technology and Engineering (ATSE), Australia
10:55 – 11:15 am	Morning Tea	
SESSION 2 – CHAIRED BY AIXIANG WU, VICE PRESIDENT, BEIJING UNIVERSITY OF SCIENCE AND TECHNOLOGY		
11:15 – 11:45 am	Innovative and Strategic Research on Key Engineering Technologies for Sustainable Development of Metallic Mineral Resources	Prof. Meifeng Cai, Academician, Chinese Academy of Engineering (CAE) and Professor, University of Science and Technology Beijing, China
11:45 am – 12:15 pm	Interface between Teaching and Research as the Means to Building Successful International Partnerships	Prof. Seth Kunin, Deputy Vice-Chancellor International, Curtin University, Australia
12:15 – 1:00 pm	Lunch	
SESSION 3 – CHAIRED BY PROF. MIKE HOOD, CHAIR OF QUEENSLAND DIVISION OF THE AUSTRALIAN ACADEMY OF TECHNOLOGY AND ENGINEERING		
2:30 – 3:00 pm	Build a Platform for Sino-Australian Cooperation to Promote the Commercialisation of Coal Science and Technology	Dr Leting Huang, Vice General Manager, Tiandi Science and Technology, China
3:00 – 3:30 pm	Suboptimal Health and Glycomics: New Health Measuring Dimensions for Predictive, Preventive and Personalized Chronic Disease Stratification	Prof. Wei Wang, Pro-Vice-Chancellor (China) of Edith Cowan University, Fellow of the Royal Society of Medicine of United Kingdom, Australia
3:30 – 4:00 pm	Key Technologies for Robotic Coal Mining	Prof. Shirong Ge, President, China University of Mining & Technology, Beijing, China
4:00 – 4:20 pm	Afternoon Tea	
SESSION 4 – CHAIRED BY DR XINGSHENG LI, RESEARCH LEADER OF ROCK CUTTING & DRILLING, CSIRO ENERGY		
4:20 – 4:50 pm	Global Trends in Urban Water Management	Prof. Zhiguo Yuan, the University of Queensland, Fellow of the Australian Academy of Technology and Engineering (ATSE), Australia
4:50 – 5:20 pm	Third Brain Research and Mental Health	Prof. Steve Chen, Member of the National Academy of Engineering and Fellow of the American Academy of Arts and Sciences, USA
5:20 – 5:50 pm	Low Dimensional Materials: a Whole World of Applications	Prof. John Bell, Head of School of Chemistry, Physics and Mechanical Engineering, Queensland University of Technology, Australia
5:50 – 5:55 pm	Closing Remarks - Dr Hua Guo, Research Director, Coal Mining, CSIRO Energy	

PROGRAM DAY 3 - ENERGY AND RESOURCES

WEDNESDAY 23 JANUARY 2019

VENUE: HALL 1, LEVEL 3, KEMPINSKI HOTEL CHONGQING

TIME	TITLE	SPEAKER
OPENING - CHAIRED BY PROF. YIYU LU, DIRECTOR OF STATE KEY LABORATORY OF COAL MINE DISASTER DYNAMICS AND CONTROL, CHONGQING UNIVERSITY		
9:00 – 9:05 am	Introduction of the Forum and VIP	Prof. Yiyu Lu, Director of State Key Laboratory of Coal Mine Disaster Dynamics and Control, China
9:05 – 9:10 am	Co-chair's Welcome	Prof. Xuefu Xian, Academician, Chinese Academy of Engineering (CAE) and Professor, Chongqing University, China
9:10 – 9:15 am	Co-chair's Welcome	Dr. Hua Guo, Research Director, Coal Mining, CSIRO Energy, Australia
9:15 – 9:20 am	Welcome from Chinese Academy of Engineering (CAE)	TBA
9:20 – 9:40 am	Group Photograph	
SESSION 1 – CHAIRED BY PROF. DEYI JIANG, DEAN, COLLEGE OF RESOURCES AND ENVIRONMENTAL SCIENCE, CHONGQING UNIVERSITY & DR BINZHONG ZHOU, SENIOR PRINCIPAL RESEARCH GEOPHYSICIST, CSIRO ENERGY		
9:40 – 10:00 am	Rheological Framework for Paste Filling in Metal Mines	Prof. Aixiang Wu, Vice President, Beijing University of Science and Technology, China
10:00 – 10:20 am	CSIRO Coal Mining Research and Collaboration with China	Dr. Hua Guo, Research Director, Coal Mining, CSIRO Energy, Australia
10:20 – 10:40 am	Key Technologies for Direct Utilization of Low Concentration Methane in Coal Mine Area	Prof. Guangcai Wen, Vice General Manager, State Key Laboratory of Gas Disaster Detecting, Preventing and Emergency Controlling, China
10:40 – 11:00 am	Grand Challenges and Innovation Needs in the Mining Industry – an Update	Prof. Ismet Canbulat, Chair of Rock Mechanics, The University of New South Wales, Australia
11:00 – 11:20 am	Morning Tea	
SESSION 2 –CHAIRED BY PROF. AIXIANG WU, VICE PRESIDENT, BEIJING UNIVERSITY OF SCIENCE AND TECHNOLOGY & DR XINGSHENG LI, RESEARCH LEADER OF ROCK CUTTING & DRILLING, CSIRO ENERGY		
11:20 – 11:40 am	Roles of Modelling and Simulation in Process Development and Evaluations for Mining Projects	Dr Jianjun Tian, General Manager, CITIC SMCC Process Technology, Australia
11:40 am – 12:00 pm	BBR Research System of Top Coal Caving Law and its Engineering Application	Prof. Jiachen Wang, Vice President, China University of Mining & Technology, Beijing, China
12:00 – 12: 20 pm	Predicting Coal Seam Top Ahead of the Drill-bit by Conductively-guided Borehole Radar Waves	Dr. Binzhong Zhou, Senior Principal Research Geophysicist, CSIRO Energy, Australia
12:20 – 1:10 pm	Lunch	
SESSION 3 – CHAIRED BY PROF. JIACHEN WANG, VICE PRESIDENT, CHINA UNIVERSITY OF MINING & TECHNOLOGY BEIJING & PROF. ISMET CANBULAT, CHAIR OF ROCK MECHANICS, THE UNIVERSITY OF NEW SOUTH WALES		
2:00 – 2:20 pm	Research Progress and Understanding of Liquid CO2 Fracturing in Coal seam	Prof. Jianchun Guo, Vice President, Southwest Petroleum University, China
2:20 – 2:40 pm	Australian Practices of Managing Dynamic Hazards in Underground Coalmines	Prof. Ting Ren, University of Wollongong, Australia
2:40 – 3:00 pm	Research Progress on Key Technologies for Permeability Enhancement and High Efficiency Gas Drainage for Difficult Gas Drainage Coal Seams	Prof. Baiquan Lin, China University of Mining & Technology, China
3:00 – 3:20 pm	Current Status of China's Coalbed Methane Development	Prof. Yiyu Lu, Director of State Key Laboratory of Coal Mine Disaster Dynamics and Control, Chongqing University, China
3:20 – 3:40 pm	A Solution to the Debate of Global Warming	Prof. Chunan Tang, Changjiang Scholar, Dalian University of Technology, China
3:40 – 4:00 pm	Afternoon Tea	
SESSION 4 – CHAIRED BY PROF. GUANGZHI YIN, SECRETARY, COLLEGE OF RESOURCES AND ENVIRONMENTAL SCI-ENCE, CHONGQING UNIVERSITY & PROF. TING REN, UNIVERSITY OF WOLLONGONG, AUSTRALIA		
4:00 – 4:20 pm	Research on Key Technology and Engineering Application of Water Ring Vacuum Pump Green Gas Extraction for CBM	Prof. Fubao Zhou, China University of Mining & Technology, Xuzhou, China
4:20 – 4:40 pm	Exploration and Practice of Intelligent Fully Mechanized Mining Technology in Coal Mine	Prof. Jingdao Fan, Shanxi Yanchang Petroleum Group, China
4:40 – 5:00 pm	Fractional Derivative Modelling Approach to Geo-mechanics	Prof. Hongwei Zhou, China University of Mining & Technology, Beijing, China
5:00 – 5:20 pm	An Integrated Utilization Method of Biogas and Ultra-low Concentration Methane in Coal Mines	Prof. Baisheng Nie, China University of Mining & Technology, Beijing, China
5:20 – 5:40 pm	Progress in Green Exploration and Development of Shale Gas in Chongqing	Zhaohui Lu, Deputy director, National and Local Joint Engineering Research Center of Shale Gas Exploration and Development,Chongqing Institute of Geol-ogy and Mineral Resources
5:40 – 5:45 pm	Closing Remarks - Dr Hua Guo, Research Director, Coal Mining, CSIRO Energy	

PROGRAM DAY 3 - CIVIL AND CONSTRUCTION

WEDNESDAY 23 JANUARY 2019

VENUE: HALL 2, LEVEL 3, KEMPINSKI HOTEL CHONGQING

TIME	TITLE	SPEAKER
OPENING - CHAIRED BY CO-CHAIR, PROFESSOR HONG GUAN, GRIFFITH UNIVERSITY, AUSTRALIA		
9:00 – 9:10 am	Co-Chair's Welcome	Prof. Hanlong Liu, Vice President of Chongqing University, China
9:10 – 9:20 am	Co-Chair's Welcome	Prof. Guowei Ma, Vice President of Hebei University of Technology, China
9:20 – 9:30 am	Group Photo (all participates of Civil Engineering and Construction session)	
SESSION 1 – CHAIRED BY PROF. WENGANG ZHANG AND DR. TING ZHANG		
9:30 – 10:00 am	The Innovation of Technology and the Change of Labor Cost Redefine the Construction: Evidences from China and Australia	Prof. Guiwen Liu, Chongqing University, China
10:00 – 10:30 am	Progressive Collapse Resistance of Reinforced Concrete Flat Plate Structures	Prof. Hong Guan, Griffith University, Australia
10:30 – 10:45 am	Morning Tea	
SESSION 2 – CHAIRED BY PROF. JIANMING HUA AND PROF. BO YANG		
10:45 – 11:15 am	Damage Evolution of Granite under Uniaxial Compression and Its Effect on P-Wave Propagation	Prof. Jianbo Zhu, Tianjin University, China
11:15 – 11:45 am	A New Grouted Soil Nail	Prof. Shanyong Wang, The University of Newcastle, Australia
11:45 – 1:00 pm	Lunch	
SESSION 3 – CHAIRED BY PROF. XUANMING DING AND DR. SEN LIN		
2:00 – 2:30 pm	Large Deformation Analysis for Dissipation of the Free-falling Penetrometer	Prof. Dong Wang, Ocean University of China
2:30 – 3:00 pm	Implementation of a Modified Drucker–Prager Model in the Lattice Spring Model for Plasticity and Fracture	Prof. Gaofeng Zhao, Tianjin University, China
3:00 – 3:30 pm	Counterintuitive Friction Behaviour Achieved by Optimal Design of Surface Structure	Prof. Weifeng Yuan, Southwest University of Science and Technology, China
3:30 – 3:45 pm	Afternoon Tea	
SESSION 4 – CHAIRED BY PROF. QIANG XIE AND DR. RUIQING HAO		
3:45 – 4:10 pm	Heterogeneity Characteristics of Aquifers Based on Tomographic Scanning Imaging	Prof. Yue Liang, Chongqing Jiaotong University, China
4:10 – 4:35 pm	Theory and Technical Framework of Disaster Mechanism and Prevention on High-Speed Railway Subgrade In the Goaf Site In China	Prof. Baobin Gao, Institutes of Technology of Henan, China
4:35 – 5:00 pm	A Maze-pattern Path Generation Scheme for Fused Deposition Modelling	Dr. Sen Lin, Hebei University of Technology, China
5:00 – 5:25 pm	Application of 3D Modelling Technology in Geological Disaster Prevention Engineering	Dr. Bolin Chen, Chongqing institute of Geology and Mineral Resources, China
5:25 – 5:30 pm	Closing Remarks	

PROGRAM DAY 3 - ADVANCED MATERIALS AND MANUFACTURING

WEDNESDAY 23 JANUARY 2019

VENUE: HALL 3, LEVEL 3, KEMPINSKI HOTEL CHONGQING

TIME	TITLE	SPEAKER
9:00 – 9:10 am	Co-chair's Welcome	Prof. Bin Jiang , Director of Department of Materials Science, Chongqing University, China
9:10 – 9:20 am	Co-chair's Welcome	Prof. Mingxing Zhang , University of Queensland, Australia
9:20 – 9:30 am	Group Photograph	
SESSION 1 – CHAIRED BY PROF. JINGFENG WANG, ASSOCIATE DEAN OF COLLEGE OF MATERIALS SCIENCE AND ENGINEERING, CHONGQING UNIVERSITY, CHINA		
9:30 – 9:50 am	Grain Refinement of Cast Metals	Prof. Mingxing Zhang , University of Queensland, Australia
9:50 – 10:10 am	Composite and Concrete Research at USQ	Prof. Hao Wang , University of Southern Queensland, Australia
10:10 – 10:30 am	Optimizing Strength and Ductility of Nanostructured Metals by Tailoring Structure	A/Prof. Tianlin Huang , College of Materials Science and Engineering, Chongqing University, China
10:30 – 10:45 am	Morning Tea	
SESSION 2 – CHAIRED BY PROF. MINGXING ZHANG, UNIVERSITY OF QUEENSLAND, AUSTRALIA		
10:45 – 11:05 am	Orientation Variant Selection of Precipitates in Crept Mg-Gd and Mg-Y Alloys	Professor Liming Peng , Shanghai Jiaotong University, China
11:05 – 11:25 am	Recent Progress in Advanced Micromanufacturing Technology at UOW	Prof. Zhengyi Jiang , University of Wollongong, Australia
11:25 – 11: 45 am	Welding of Die Casting Magnesium Alloys	A/Prof. Guoqiang You , College of Materials Science and Engineering, Chongqing University, China
11:45 – 1:00 pm	Lunch	
SESSION 3 – CHAIRED BY PROF. BIN JIANG, DIRECTOR OF DEPARTMENT OF MATERIALS SCIENCE, CHONGQING UNIVERSITY, CHINA		
2:10 – 2:30 pm	Design, Preparation and Application of New Structural and Functional Integrated Magnesium Alloys	Prof. Jingfeng Wang , College of Materials Science and Engineering, Chongqing University, China
2:30 – 2:50 pm	Designing the Core-shell Metal-coated Ti Powders for Net-shape Manufacturing of High-performance Complex Ti Parts	Prof. Yafeng Wang , Institute of Process Engineering, Chinese Academy of Sciences, China
2:50 – 3:10 pm	Advanced Coating Strategies for Mg Alloys	Dr. Xiaobo Chen , RMIT University, Australia
3:10 – 3:30 pm	A Detailed HAADF-STEM Study of Precipitate Evolution and Transformation in Mg-Gd Alloy	Dr. Yu Zhang , College of Materials Science and Engineering, Chongqing University, China
3:30 – 3:45 pm	Afternoon Tea	
SESSION 4 – CHAIRED BY A/PROF. GUOQIANG YOU, COLLEGE OF MATERIALS SCIENCE AND ENGINEERING, CHONGQING UNIVERSITY, CHINA		
3:45 – 4:05 pm	Development of High Performance Cast Magnesium Alloys	Prof. Mingbo Yang , College of Materials Science and Engineering, Chongqing University of Technology, China
4:05 – 4:25 pm	Integrated Surface-Interface Design & Tuning for Light Alloys	Prof. Qiang Wang , Xian University of Architecture and Technology, China
4:25 – 4:45 pm	Additive Manufacturing of Ceramics	Prof. Han Huang , University of Queensland, Australia
4:45 – 5:05 pm	Chemical Design and Synthesis of Tin Chalcogenide Thermoelectrics	Prof. Guang Han , College of Materials Science and Engineering, Chongqing university, China
5:05 – 5:25 pm	Improving the Formability of Magnesium Alloy Sheet by Texture Control	A/Prof. Qingshan Yang , Chongqing University of Science and Technology, China
5:25 – 5:30 pm	Closing Remarks	

PROGRAM DAY 3 – ENVIRONMENT AND ECOLOGY

WEDNESDAY 23 JANUARY 2019

VENUE: HALL 4, LEVEL 3, KEMPINSKI HOTEL CHONGQING

TIME	TITLE	SPEAKER
OPENING – PROF. QIAN HE, CHONGQING UNIVERSITY		
8:40 – 8:45 am	Co-chair’s Welcome	Prof. Qian He, Chongqing University, China
8:45 – 8:50 am	Co-chair’s Welcome	Prof. Shaobin Wang, The University of Adelaide, Australia
8:50 – 9:00 am	Group Photograph	
SESSION 1 – CHAIRED BY PROF. ZHIGUO YUAN, THE UNIVERSITY OF QUEENSLAND		
9:00 – 9:30 am	Challenge of Drinking Water Quality in Urban Area and Technology Development toward Sustainable Solution	Prof. Jun Ma, Harbin Institute of Technology, China
9:30 – 10:00 am	Principles for Water Wise Cities Toward the Future and Worldwide Practices	Prof. Xiaochang Wang, XI’AN University of Architecture and Technology, China
10:00 – 10:30 am	Integrating Advanced Oxidation with Membrane Separation	Prof. Hongqi Sun, Edith Cowan University
10:30 – 10:45 am	Morning Tea	
SESSION 2 – CHAIRED BY PROF. QIAN HE, CHONGQIN UNIVERSITY		
10:45—11:00 am	Recovery of Resources from Agricultural Residuals for Waste minimization and Pollution Prevention	Prof. Philip Kwong, University of Adelaide, Australia
11:00—11:15 am	Challenges and Advance of Nanotechnology for Large-scale Water Treatment	Prof. Bingcai Pan, Nanjing University, China
11:15—11:30 am	Carbocatalysis for Advanced Oxidation to Remove Organic Contaminants in Water	Prof. Shaobin Wang, The University of Adelaide, Australia
11:30—11:45 am	Research on Gasification of Biomass Waste	Prof. Guanyi Chen, Tianjin University, China
11:45—12:00 am	Acute and Chronic Impacts of Titanium Oxidation Nanoparticles on Functionality of Constructed Wet-lands	Prof. Yi Chen, Chongqing University
12:00 – 1:00 pm	Lunch	
SSESSION 3 – CHAIRED BY PROF. SHAOBIN WANG, THE UNIVERSITY OF ADELAIDE		
2:00—2:30 pm	Solutions and challenges for Water Sensitive Coastal Cities	Prof. Hong Zhang, Griffith University, Australia
2:30—3:00 pm	Design and Implementation of Water Eco-System in Tianjing ECO-CITY	Prof. Xingcan Zheng, North China Municipal Engineering Design & Research Institute Co. Ltd, China
3:00—3:15 pm	Metallic Glasses: A New Route for Wastewater Treatment	Prof. Laichang Zhang, Edith Cowan University, Australia
3:15—3:30 pm	Multifunctional Wetlands Adapting to Environmental Change: Application of Ecological Wisdom to Wetland Restoration	Prof. Xingzhong Yuan, Chongqing University, China
3:30 – 3:45 pm	Afternoon Tea	
SESSION 4 – CHAIRED BY PROF. DAIJUN ZHANG		
3:45—4:00 pm	Ammonia Synthesis at Room Temperature	Prof. Chenghua Sun, Swinburne University of Technology, Australia
4:00—4:15 pm	China’s Wastewater Market: Development and Chal- lenges	Prof. Danyu Xu, Association of Environmental Protection, China
4:15—4:30 pm	The Adsorption Removal of Mercury with Activated Carbon: a Study with Monte Carlo Simulation	Dr. Chunyan Fan, Curtin University, Australia
4:30—4:45 pm	Characteristics and Biological Treatment of Flowback Water from Shale Gas Development	Prof. Peili Lu, Chongqing University, China
4:45—5:00pm	Anaerobic Digestion for Efficient Biogas Production from Organic Wastes by Integration with Ther- mal-chemical Technologies	Prof. Gang Luo, Fudan University, China
5:00—5:15pm	Interactions Between Suspended Particulate Matter and Phytoplankton Community	Prof. Hong Li, Chongqing University, China
5:15 – 5:30 pm	Closing Remarks	

PROGRAM DAY 3 - BIOMEDICINE AND HEALTH

WEDNESDAY 23 JANUARY 2019

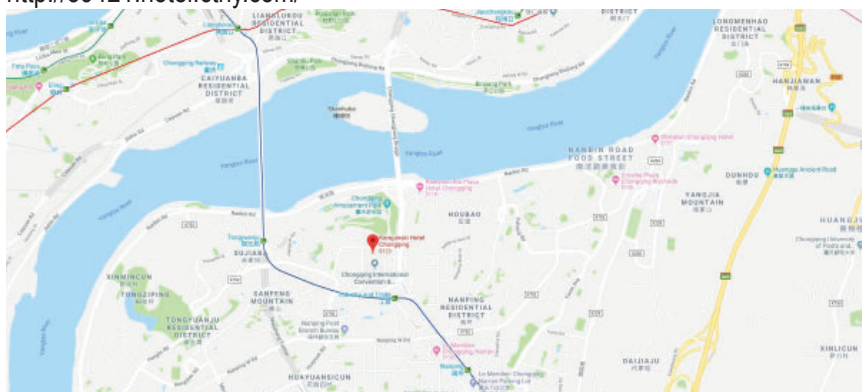
VENUE: HALL 5, LEVEL 4 (ACCESS FROM LEVEL 3), KEMPINSKI HOTEL CHONGQING

TIME	TITLE	SPEAKER
OPENING - CHAIRED BY A/PROF. JING SUN (SCHOOL OF MEDICINE, GRIFFITH UNIVERSITY, AUSTRALIA)		
8:15 – 8:30 am	Co-Chairs' Welcome	A/Prof. Jing Sun, School of Medicine, Griffith University, Australia Prof. Guixue Wang, School of Bioengineering, Chongqing University, China
SESSION 1 - CHRONIC DISEASE PREVENTION AND HEALTH, CHAIRED BY XIAO XU (), PROF. WEI WANG (EDITH COWAN UNIVERSITY, AUSTRALIA), PROF. GUIXUE WANG (CHONGQING UNIVERSITY)		
8:30 – 8:50 am	Wearable technology and prevention of complex chronic diseases	A/Prof. Jing Sun, School of Medicine, Griffith University, Australia
8:50 – 9:10 am	Cognitive behaviour therapy and trend of its application to prevent chronic disease and treatment	Prof. ZhanJiang Li, Vice Dean of Beijing Anding Hospital Affiliated to Capital Medical University, China
9:10 – 9:30 am	Get Set for Surgery: Supporting patients to increase their wellness and reduce their elective surgical risk	Dr. Carl De Wet, GP Liaison Unit, Centre for Health Innovation, Gold Coast University Hospital, Gold Coast Health, Australia
9:30 – 9:50 am	Studying families to identify genetically validated drug targets for Parkinsonism	Prof. George-Mellick, Head of the School of Environment and Science, at Griffith University, Australia
9:50 – 10:10 am	CART-biological treatment	Prof. Cheng Qian, Medical College & Cancer Hospital, Chongqing University, China
10:10 – 10:25 am	Using Cytological Profiling to Discover Chemical Probes from Traditional Chinese Medicines against Parkinson's Disease	A/Prof. Yunjiang Feng, Griffith Institute for Drug Discovery (GRIDD), Australia
10:25 – 10:50 am	Group Photograph & Morning Tea	
SESSION 2 - AI AND BIG DATA, MULTI-TECHNOLOGY, CHAIRED BY NICHOLAS BUYS(), PROF. JIANKANG LIU (XI 'AN JIAOTONG UNIVERSITY), PROF. CHENG QIAN (CHONGQING UNIVERSITY)		
10:50 – 11:10 am	EU-Horizon 2020 project: Prevention of dementia using mobile phone applications (Prodemos)	Prof. Wei Wang, Pro-Vice Chancellor, Edith Cowan University, Australia
11:10 – 11:30 am	Transforming Information to Knowledge	Brentyn Parkin, Executive Director, Queensland Community Service Organisation, Australia
11:30 – 11: 50 am	Big Data Analytics and Applications on Healthcare	Prof. Xue Li, School of Information Technology and Electrical Engineering, The University of Queensland, Australia
11:50 am – 12:05 pm	A brain-inspired algorithm of tracking moving object anticipatively	Prof. Yuanyuan Mi, College of Medicine, Chongqing University, China
12:05 – 12:30 pm	From academic innovation to commercial product	Prof. Hans Gregersen, Prince of Wales Hospital, The Chinese University of Hong Kong
12:30 – 1:40 pm	Lunch	
SESSION 3 – HEALTH & DISEASES, CHAIRED BY PROF. ZHANJIANG LI (BEIJING ANDING HOSPITAL AFFILIATED TO CAPITAL MEDICAL UNIVERSITY), PROF. WENTAO YUE(), PROF. YAZHOU WANG (CHONGQING UNIVERSITY)		
1:40 - 2:00 pm	Interpretation of Science and Technology Policy	Yuanbin Wu, Director, Department of Science and Technology, China
2:00 - 2:20 pm	Prevention of birth defect: a cohort study in China	Prof. Cheng Hong Yin, Deputy Director of Beijing Obstetrics and Gynecology Hospital, Beijing,China
2:20 – 2:40 pm	The impact of Iron deficiency on infant motor development	A/Prof. Ming Li, Department of Pediatrics, First Hospital of Peking University, Beijing, China
2:40 - 3:00 pm	The relationship between PM2-5 exposure and the risk of natural abortion : a retrospective cohort study	A/Prof. Yuanyuan Wang, National Research Institute for Family Planning, China
3:00 - 3:15 pm	Incidence of childhood overweight and obesity and its association with weight related attitudes and behaviors in China	Li Cai, lecturer,School of Public Health, Sun Yat-sen University, China
3:15 - 3:30 pm	A novel approach for eliminating HBV replicating template cccDNA	Prof. Yong Liao, Chongqing Medical University, China
3:30 - 3:45 pm	Challenges and opportunities for drug resistant tuberculosis prevention	Jianping Xie, Principal Investigator, School of Life Sciences, Southwest University, China
3:45 – 4:00 pm	Afternoon Tea	
SESSION 4 - BIOPHARMACEUTICAL AND MULTI-TECHNOLOGY, CHAIRED BY PROF. YUGUANG SHI (UNIVERSITY OF TEXAS, USA), PROF. CHENG HONG YIN (BEIJING OBSTETRICS AND GYNECOLOGY HOSPITAL), PROF. ZHENGUO LI (CHONGQING UNIVERSITY)		
4:00 - 4:20 pm	Novel theranostics for improved diagnosis and treatment of cancer	Prof. John Hooper, Mater Research Institute, The University of Queensland, Australia
4:20 - 4:40 pm	Metabolism & Aging	Prof. Yuguang Shi, San Antonio Medical Center, University of Texas, USA
4:40 - 5:00 pm	Cross -over study and Creative thinking & cell microenviroment	Prof. Feng Xu , Vice-Dean of Life College, Xi'an Jiaotong University, China
5:00 - 5:20 pm	Identification of novel regulators of tumor cell cycle progression using shRNA expression vector library	A/Prof. Vivi Kasim, School of Bioengineering, Chongqing University, China
5:20 - 5:35 pm	DNA-Encoded Chemical Library: A New Driving Force for Drug Discovery	Yizhou Li, Principal Investigator, College of Pharmacy, Chongqing University, China
5:35 - 5:48 pm	Optimization of Tumor Treatment Using Stimuli-responsive nano-technology	Prof. Zhong Luo, College of Life and Sciences, Chongqing University, China
5:48 - 6:00 pm	Photo protection	Prof. Julia Li Zhong, Medical College & Bioengineering College, Chongqing University, China
6:00 – 6:10 pm	Closing Remarks	

GENERAL INFORMATION

FORUM VENUE

Kempinski Hotel Chongqing, Chongqing, China
No.2 Jiangnan Avenue, Nanan Qu, Chongqing, China 400060
<http://39421.hotel.cthy.com/>



REGISTRATION

Full registration: \$600

Student registration: A\$400

Online registration : <https://www.trybooking.com/YUOX>

The registration desk is located in the Level 1 Foyer of Kempinski Hotel Chongqing and will be open as follows:

Monday, 21 January 2019 9:00 am – 9:00 pm

Tuesday, 22 January 2019 8:00 am – 6:00 pm

Wednesday, 23 January 2019 8:00 am – 2:00 pm

Upon registration delegates will be issued with their registration pack including delegate document folder and name badge.

ENQUIRIES

General coordination: Fuzong Song, Room No.1915, Tel: +86 (0)238688 8888-1915

Conference Affairs: Qian Li Room No.1917, Tel: +86 (0)238688 8888-1917.

Please contact us in advance if you have any special dietary requirements, need help to reserve tickets (train, bus), or we can assist you during the Forum.

Enquires may also be directed to staff at the registration desk.





2019 AUSTRALIA - CHINA

Science, Technology, Commercialisation & Innovation Forum

2019 中-澳科技创新和产业化论坛



forum2019.qcase.org.au



qcase.secretariat@gmail.com