



# International Symposium on Co-design for Urbanization in China and Asia-Pacific Region

20-23 October, 2015  
Xiamen, China

## Second CIRCULAR

Urbanization impacts environmental quality through high intensity discharge of waste, landscape changes and altered biogeochemical cycling of carbon and nutrients. Urban biogeochemical processes occur locally but have global impacts, particularly climate impacts. Climate changes will in turn influence urban sustainability and systems health. Cities also are the centers of knowledge, creativity and collective intelligence, where solutions to problems of urbanization are being developed. However, urban systems are complex and their development is never managed by a single institution or level of government; some aspects are simply emergent properties of the behaviour of many individuals. As a consequence, a sophisticated understanding of multi-layer and multi-sectoral decision making is needed to facilitate the quickest possible moves towards sustainability.

Future Earth is a 10-year international research programme launched in June 2012 that will provide critical knowledge required for societies to face the challenges posed by global environmental and climate changes and to identify opportunities for a transition to global sustainability. The Chinese National Committee for Future Earth (CNC-FE) was formally established on 21 March, 2014. In March 2014, Chinese Academy of Sciences funded “Co-design of Implementation Plan for Future Earth in China” under the framework of International Cooperation Program of Bureau of International Cooperation, CAS.

At the joint workshop with Future Earth Science Committee and interim Engagement Committee in early June 2014, CNC-FE was encouraged to establish international collaboration with Asian-Pacific countries to address the scientific challenges of Future Earth,

in particular, dealing with urbanization, air pollution and health problems in the region. After interacting with Future Earth, another ICSU Programme on Urban Health and Wellbeing in the Changing Urban Environment and other partners of CAS, planned an international symposium on “Co-design for Urbanization in China and the Asia-Pacific Region” to be held at the Institute of Urban Environment, CAS, in Xia’men, China, 20-23 October 2015.

**Theme**

Co-design for Urban Development in China and the Asia-Pacific Region

**Objective**

To develop a set of co-designed research priorities and working partnerships that could deliver to urban development in China and the Asia-Pacific Region

**Important Dates**

- **10 September, 2015: Detailed agenda available online**
- **21 September, 2015: Deadline for registration**
- **20 October, 2015: On-site registration**
- **21-23 October, 2015: Symposium**

**Conference Venue: Asia Gulf Hotel, Xiamen**

Add.: 98 Around Ring Road, Huang Cuo, Xiamen, 361005, China

Web: <http://www.gulf-hotel.com.cn/en/index.aspx>

**Registration**

To register, please email the registration feedback form (available at <http://cnc-fe.cast.org.cn/ISCUCA/index.asp?a=Agenda>) to [cnc-fe@lasg.iap.ac.cn](mailto:cnc-fe@lasg.iap.ac.cn).

Registration Fee: 1000CNY/160USD

**Website:**

<http://cnc-fe.cast.org.cn/ISCUCA/index.asp>

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**Invited Speakers (Alphabetical, to be added):**

**Bai, Xuemei**, Member of Science Committee of Future Earth, Fenner School of Environment and Society, Australian National University

**Chen, Jie**, Guangzhou Pearl River Foreign Investment Architecture Designing Institute

**Du, Xiangwan**, Chinese Academy of Engineering

**Elmqvist, Thomas**, Stockholm Resilience Centre, Stockholm University

**Feng, Jinming**, Institute of Atmospheric Physics, Chinese Academy of Sciences

**Fu, Bojie**, National Natural Science Foundation of China

**Head, Peter**, Founder & Chief Executive Officer of Ecological Sequestration Trust

**Iqbal, Javed**, Cosmic Therapeutics

**Jia, Gensuo**, Institute of Atmospheric Physics, Chinese Academy of Sciences

**Lawrence, Roderick J.**, University of Geneva & Invited Professor United Nations University

**Liu, Yimin**, Institute of Atmospheric Physics, Chinese Academy of Sciences

**Lung, Shih-Chun Candice**, Academia Sinica

**Mayor of Tongxiang**

**Qi, Jianguo**, Institute of Quantitative & Technical Economics, Chinese Academy of Social Sciences

**Seto, Karen**, Yale School of Forestry and Environmental Studies

**Stafford-Smith, Mark**, Chair of Science Committee of Future Earth, CSIRO's Climate Adaptation Flagship

**Toze, Simon**, Land and Water Flagship, CSIRO

**Yan, Zhongwei**, Institute of Atmospheric Physics, Chinese Academy of Sciences

**Yang, Xiuqun**, School of Atmospheric Sciences, Nanjing University

**Zheng, Rui**, Institute of Psychology, Chinese Academy of Sciences

**Zhu, Tong**, College of Environmental Sciences and Engineering, Peking University

**Zhu, Yonguan**, Institute of Urban Environment, Chinese Academy of Sciences

## **Tentative Agenda**

**21 October**

**8:30-12:30 Morning**

**Opening**

**Plenary Session:**

- Mark Stafford-Smith, *Meeting the urban challenge in Future Earth*
- Xiangwan Du, *How to make the urbanization process low carbon*
- Peter Head, *The design, development and demonstration of an open-source integrated human-ecosystems-economics planning and investment platform for resilience planning worldwide*
- Bojie Fu, *Urbanization and its ecological effects in China*

**Session A: Urban systems dynamics and rural-urban linkages to inform development strategies for sustainability**

- Simon Toze, *Using sustainability actions to decrease impact of cities on rural centres*
- Jianguo Qi, *Supporting the construction of urban ecological civilization by the circular economy system of urban landscape garden*
- Gensuo Jia, *Decadal changes of macro structure of urban clusters and implications in regional sustainability*

(Followed by discussions to identify key research priorities)

**14:30-18:30 Afternoon**

**Session B: Impacts of urbanization on climate change and of climate change on cities**

- Karen Seto, *Mitigating climate change in urban areas: Lessons from the IPCC 5th assessment report*
- Xiuqun Yang, *The climate effect of large scale urbanization in eastern China: Detection and simulation*
- Yimin Liu, *Impact of Urbanization in Beijing on the boundary structure and weather extremes*
- Jinming Feng, Zhongwei Yan, Jun Wang: *Sensitivity of summer precipitation to the scale of urban agglomeration in China*

(Followed by discussions to identify key research priorities)

**Session C: Linking adaptation and mitigation actions for climate resilient, low carbon cities**

- Roderick J. Lawrence, *Co-design and implementation of the future we want: principles and applications*

- Jie Chen, *Green building for region climate and cultural appeal-Guangzhou Meteorological Monitoring and Alert Center*

(Followed by discussions to identify key research priorities)

## **22 October**

**9:00-12:30 Morning**

### **Session D: Drivers of ecosystem health and human wellbeing in urban environments**

- Thomas Elmqvist, *Nature-based solutions and enhanced human health in urban areas*
- Tong Zhu, *Megacities and cobenefits of air pollution control and climate change policy*
- Yonguan Zhu, *Managing biogeochemical cycling for sustainable urbanization*
- Rui Zheng, *Town mouse or country mouse: identifying a town dislocation effect in Chinese urbanization*
- (Mayor of Tongxiang): *A New Type of Urbanization in Tongxiang City*
- Shih-Chun Candice Lung, *Heat-stress vulnerability assessment to enhance urban health resilience under climate change*

(Followed by discussions to identify key research priorities)

**14:00-18:30 Afternoon**

### **Session E: Social and institutional responses for urban sustainability transitions**

- Xuemei Bai, *Urban system dynamics, transition and transformation towards sustainability*
- Javed Iqbal, *Rapid urbanization and it's impact on human health: The role of epigenetics*

(Followed by discussions to identify key research priorities)

### **Regional forum: representatives from regions**

## **23 October**

**9:00-12:00**

Final Plenary Session (reports from each session and a plenary discussion about ways ahead)

**14:00-17:00**

Field trip to Haicang District in Xiamen