

Announcement and Call for Participation

RISUD Annual International Symposium 2018 (RAIS 2018) – Inter-disciplinary Research for Societal Impact 29 – 30 June 2018

Organized by

Research Institute for Sustainable Urban Development (RISUD)

The Hong Kong Polytechnic University

Financial Sponsors: The Ove Arup Foundation and the Kwang-hua Education Foundation

Aim and Scope

The RISUD Annual International Symposium (RAIS) Series aims to provide an international platform for in-depth exchanges in key areas related to sustainable urban development and to serve as a catalyst for international collaboration. The third symposium of the series (RAIS 2018), to be held on **29 – 30 June 2018**, will be focused on “**Inter-disciplinary Research for Societal Impact**”.

The symposium will consist of Invited Plenary Presentations to be delivered by a significant number of distinguished researchers on day 1 and 5 workshops on day 2 as detailed below; these workshops will address frontier topics of significant importance to sustainable urban development.

| Name of workshop | Workshop 1 – Urban Air Pollution and Health | Workshop 2 – Advanced Energy Conversion and Storage | Workshop 3 – Industrialization for Modular Construction | Workshop 4 – Smart Urban Transportation | Workshop 5 – 5 th Cross-Strait Forum on Sustainable Urban Development |
|-----------------------------|--|---|---|--|---|
| Chair & Co-chair | Prof. Hai GUO & Prof. Xiang-dong LI | Prof. Sheng-wei WANG & Prof. Meng NI | Prof. Geoffrey Q. P. SHEN & Dr Jian-guo DAI | Prof. Anthony CHEN & Dr Tony N.N. SZE | Prof. Jin-guang TENG & Dr You DONG |
| Significance/ Scope | Urban air pollution has received a considerable amount of attention because of its expected roles in health effect. It is of critical importance to develop an in-depth scientific understanding of the multidimensional urban system and the role of its key anthropogenic emission sources in the formation, growth and atmospheric dynamics of air pollution. This knowledge is crucial for guiding future technologies, urban development and regulatory scenes to minimize negative impacts while benefiting from progress. | Energy is the driving force for economic development throughout the world. Advanced energy conversion and storage technologies as well as energy system optimization are critical for energy saving and renewable energy applications to reduce greenhouse gas and pollutant emission for smart city development. | Compared with traditional construction methods, industrialized construction processes have a number of advantages, such as increased labour productivity, accelerated pace of construction, reduced costs and improved quality. Rapid advances in this field are expected over the coming decade due to the development and application of new technologies and processes, such as innovative materials and structural systems, advanced ICT technologies, and new manufacturing methods. | Smart mobility includes innovations to deal with problems in the transportation sector that range from policy, through design, control to management, using information and communication technology. It can address the challenges in future urban transportation development and improve the efficiency, reliability, safety, environment and quality of life. | The 5th Forum of the series will be focused on two important topics: (a) High performance materials and 3D printing in construction; and (b) Urban resilience. Financially supported by the Kwang-hua Education Foundation, researchers from PolyU and five designated partner universities will gather to review the latest advances and explore collaborative research opportunities in these two exciting areas. |
| Objective | Each workshop aims to review the current status, identify future research needs and explore collaborative opportunities in the area | | | | |
| Format | Invited presentations plus in-depth discussions | | | | |

Organizing Committee

Chair:

Prof. Jin-guang TENG, Director & Division of Urban Infrastructure, RISUD, PolyU

Co-Chairs:

| | | |
|---------------------------|-----------------------------------|--------------|
| Prof. Anthony CHEN, | Division of Urban Systems, | RISUD, PolyU |
| Dr Jian-guo DAI, | Division of Urban Infrastructure, | RISUD, PolyU |
| Dr You DONG, | Division of Urban Infrastructure, | RISUD, PolyU |
| Prof. Hai GUO, | Division of Urban Environment, | RISUD, PolyU |
| Prof. Xiang-dong LI | Division of Urban Environment | RISUD, PolyU |
| Prof. Meng NI, | Division of Urban Environment, | RISUD, PolyU |
| Prof. Geoffrey Q.P. SHEN, | Division of Urban Systems, | RISUD, PolyU |
| Dr Tony N.N. SZE, | Division of Urban Systems, | RISUD, PolyU |
| Prof. Sheng-wei WANG, | Division of Green Buildings, | RISUD, PolyU |

Call for Participation

We welcome participants from within and outside Hong Kong. Please visit <https://www.polyu.edu.hk/mysurvey/index.php/893341> to register your interest in attending the Symposium by **18 May 2018**. Incomplete or late registrations will not be considered.

Programme Rundown

The programme rundown will be available on the RAIS 2018 website (*to be launched by April 2018*) at <https://www.polyu.edu.hk/risud/RAIS2018/> by approximately May 2018.

Location

The Hong Kong Polytechnic University, Hung Hom, Kowloon, Hong Kong, China

Important Dates

Registration Deadline: 18 May 2018 or full capacity
Symposium: 29 – 30 June 2018

Visa/Entry Permit

It is the participants' own responsibility to ensure that they have the valid visa / entry permit into Hong Kong for the symposium period. If any official supporting documents are needed for visa / permit application, please contact the Symposium Secretariat as soon as possible. **Please be reminded to allow sufficient time for the visa / permit application.**

Other Details

For more information, please visit the RAIS 2018 website (*to be launched by April 2018*) at <https://www.polyu.edu.hk/risud/RAIS2018/> or contact the Research Institute for Sustainable Urban Development at rais.2018@polyu.edu.hk