

Geomatics Conference 2015 - Modelling the City

Date: 28 November 2015 (Saturday)
Time: 09:30 to 12:30 (Registration starts at 09:00)
Venue: Theatre Z205, Block Z, Hong Kong Polytechnic University, Hung Hom
Fee: \$120 (RICS member); \$180 (non-member); \$60 (student)
Language: English
Capacity: 150 (first-come, first-served)



Event overview

Spatial information plays significant roles in both the construction and geomatics industries in supporting modelling and developing a sustainable city. At this half-day conference, speakers from different disciplines will:

- Explore the trend for integration of Building Information Modelling (BIM) and geospatial information, and the challenges that poses;
- Provide an update on the development of BIM standards in Hong Kong; and
- Showcase how geomatics technologies can be applied in modelling a city.

Programme Rundown

9:00	Registration
9:30	Welcome Speech , Mr Ben Chan, Chairman, RICS HK Geomatics Professional Group
9:40	Honourable Guest Speech , Mr. CHENG Wai-pun , Deputy Director/Survey & Mapping, Lands Department, The Government of HKSAR and Professor SHI Wen-zhong , Chair Professor and Head of Department of Land Surveying & Geo-Informatics, Hong Kong Polytechnic University
10:00	Keynote Speech - Integration of Geospatial & BIM Information , Mr. Carsten RÖNSDORF , Head of Advisory Services, Ordnance Survey International
10:30	Release of the Hong Kong Construction Industry Council (CIC) BIM Standards , Ir. Ronan COLLINS , Managing Director, IntelliBuild Technyx Asia Ltd.
11:00	Coffee Break
11:15	Showcases of Laser Scanned Point Clouds for Modelling & Visualisation of Existing Structures , Ms. Joyce HUNG , Product Specialist, Sigma Mascot (HK) Ltd.
11:40	Showcases of Image Point Clouds from Unmanned Aerial Systems for Modelling & Visualisation of Ground Terrain , Mr. Ben CHOI , Land Surveyor, Civil Engineering & Development Department, The Government of HKSAR
12:05	Showcases of Mobile Mapping Systems and RFID Technology for Asset Management , Mr. YIK Wai-fung , Senior Land Surveyor, Highways Department, The Government of HKSAR
12:30	Closing Remarks

About the Speakers & Presentations



Mr. Carsten RÖNSDORF is the Practice Lead for Future Cities, standards and 3D for Ordnance Survey International, a subsidiary of Britain's National Mapping Agency. He manages the Dubai office and provides geospatial and strategic advice to government agencies across the Middle East and Asia, specialising in open standards, data sharing, 3D and future cities. A geodesist by training, Mr. Rönsdorf has been at Ordnance Survey for 13 years and he has been leading the standardisation of the Open Geospatial Consortium's CityGML standard since 2007 and chairs the 3D Information Management working group.

Keynote Speech - Integration of Geospatial & BIM Information

Spatial data has been a mainstay of both the design and construction industries as well as the geospatial domain for decades. The presentation will look at the conceptual differences between both approaches, and propose how a tighter integration of geospatial and BIM data will create tremendous value. An insight into the latest collaboration between OGC and buildingSMART international towards the integration of data in the built environment will be given.



Ir. Ronan COLLINS is an experienced BIM Manager and a Professional Member of HKIBIM. He specialises in the management of detailed and accurate BIM databases for the purpose of design co-ordination (3D), construction planning (4D) and cost management (5D). He is responsible for planning and implementing BIM projects in collaboration with clients, consultants and contractors. Ir. COLLINS established IntelliBuild in 2003 as an independent BIM Consultancy to provide expert professional services. As a Chartered Structural Engineer, Ir. COLLINS has completed the design and supervision of several commercial, infrastructure and educational projects.

Release of the Hong Kong Construction Industry Council (CIC) BIM Standards

The presentation will provide an overview of the Construction Industry Council (CIC) Building Information Modelling (BIM) Standards covering the following:

- How clients could use the CIC BIM Standards on a project;
- Requirements for architects, engineers, quantity surveyors or others during design stage;
- Requirements for contractors, sub-contractors or others during construction stage; and
- How to manage Level of Development (LOD) for each stage of a project.



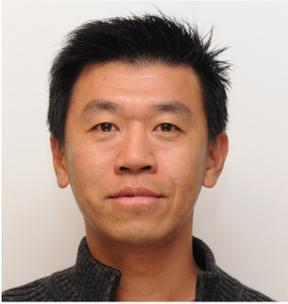
Ms. Joyce HUNG is a Product Specialist for laser scanning equipment and processing software for Sigma Mascot (HK) Limited. She graduated from the Department of Land Surveying & Geo-Informatics, Hong Kong Polytechnic University having specialised in Geographic Information System. After graduation, Ms. HUNG joined Topcon Beijing (HK) Limited as a System Engineer responsible for exploring the application of 3D laser scanning technology and data processing techniques for the geomatics, construction engineering and other industries. Ms. HUNG is a trained specialist in 3D documentation.

Showcases of Laser Scanned Point Clouds for Modelling & Visualisation of Existing Structures

There are historical, cultural, economic and social changes for every city over time. To maintain sustainable development of a city, the capability of modelling and visualizing it enables us to record and study the city at different detailedness. Among various geomatics technologies, terrestrial and hand-held laser scanners will be introduced in this presentation. A terrestrial laser scanner captures dense 3D data at high speed at different vantage points while a hand-held laser scanner allows 3D data acquisition as the operator walks through the area of interest. Showcases of real world applications with both scanners will be illustrated.



About the Speakers & Presentations



Mr. Ben CHOI has been working in the geomatics industry for almost 20 years specialising in Geographic Information System and photogrammetry since his graduation from the Department of Land Surveying & Geo-Informatics, Hong Kong Polytechnic University. He is a corporate member of HKIS in the Land Surveying Division. Mr. CHOI worked for ESRI China (Hong Kong) as a project manager responsible for the delivery of enterprise GIS projects for both the public and private sectors, and as a consultant for a leading global environmental consulting firm. Mr. CHOI subsequently joined the HKSAR Government as a Land Surveyor, and is currently seconded to the Civil Engineering and Development Department leading a team implementing aerial surveys using Unmanned Aerial System (UAS).

Showcases of Image Point Clouds from Unmanned Aerial Systems for Modelling & Visualisation of Ground Terrain

The presentation will provide an overview of the application of Unmanned Aerial System (UAS) for modeling ground terrain with the following topics covered :

- Implementation of UAS in the Civil Engineering & Development Department;
- Workflow of UAS aerial survey;
- Flight planning and operation of UAS;
- Photogrammetric data processing and terrain modelling; and
- Applications of UAS with advantages and limitation.



Mr. YIK Wai-fung is a Senior Land Surveyor in the Highways Department, HKSAR Government responsible for land and engineering survey-related technical and quality matters. Mr. YIK has extensive experience in land and engineering surveying, and he keeps abreast of the applications of advanced geomatics technologies. Recently he engaged in two asset management projects, one of which applied mobile mapping technology to collect road surface inventory data, and the other made use of Radio Frequency Identification (RFID) technology for tree management.

Showcases of Mobile Mapping Systems and RFID Technology for Asset Management

Mobile Mapping System (MMS) is a new trend of survey method to acquire 3D visualized and geo-referenced field data. The presentation will demonstrate the application of MMS for asset management of the territory-wide road surface inventories maintained by the Highways Department (HyD) of the HKSAR Government. The equipment configuration of MMS, the survey approach and the promising results obtained in the area of Hong Kong Island will be introduced. Additionally, for management of the road-side trees maintained by HyD, Radio Frequency Identification (RFID) technology is adopted in the Initial Tree Data Collection Project of HyD. The workflow from field work to data processing, the integration of data with GIS, MMS and mobile devices and the associated benefits for tree management will be discussed.



Registration form



Geomatics Conference 2015 - Modelling the City

Date: 28 November 2015 (Saturday)

Venue: Theatre Z205, Block Z, Hong Kong Polytechnic University, Hung Hom

Deadline for registration: 26 November 2015 (Thursday)

Delegate fees

RICS member	\$120
Non-RICS member	\$180
Student	\$60

To register, please complete this form and return it with payment to Ms Iris Chan at **t** +852 3759 4105 / **f** +852 2537 2756 or **email** ichan@rics.org

Delegate information

Surname _____

Given Name _____

Membership No. (If applicable): _____

Company _____

Correspondence Address: _____

Tel _____

Mobile _____

(For use in an emergency on the day of the event)

Email _____

(Please write your email clearly)

Terms and Conditions

- The organiser reserves the right to cancel or reschedule the function at its discretion
- Applicants will only receive an e-mail notification from the RICS office to confirm their registration status. Should you not received an e-mail confirmation prior to the event, you are advised to call the RICS office at +852 2116-0040 to inquire about the status of your registration
- No refund is made for cancellation or "no show" but a substitute delegate may be permitted, please inform RICS at least one day prior to the event
- In the event a Typhoon Signal No. 8 or above or Black Rainstorm Warning being hoisted, the event will be postponed and details will be announced in due course. Should the aforesaid warnings be lowered before 12:00 noon on the date of event, the event will proceed as scheduled
- Seat(s) will be confirmed upon receipt of completed registration form and payment
- Please ensure the exact amount is deposited as no change or refund will be provided
- Separate payment cheque should be prepared for individual event
- Incomplete and incorrectly completed registration form will not be processed
- Attendance certificate and receipt will be emailed to participants within 10 working days after the event. Please inform RICS immediately if you do not receive the relevant documents within the said period. Any requests made 30 days after the event will not be accepted.
- CPD is an essential part of being a professional. All RICS members are required to complete and register for a minimum of 20 hours of CPD online each year.

Data Protection Policy

RICS will always make sure you receive compulsory communications such as those relating to the administration of your membership, renewal notices, regulation and conduct, practice and guidance notes and AGM information.

Furthermore, RICS would like to use the contact details that you have provided to us in relation to the communications described below (including by email/telephone, where appropriate). Please tick the relevant boxes below:

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If you **do not wish** to receive additional communications from RICS detailing offers from third parties with whom we have negotiated special deals for members", tick here

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Methods of Payment

1. By Cheque

Please mail a crossed cheque made payable in Hong Kong dollar to "RICS International Ltd" together with the completed registration form to Ms Iris Chan at **Room 3707-09, Hopewell Centre, 183 Queen's Road East, Wanchai, Hong Kong.**

2. By Credit Card Payment

Please fill in the credit card authorization form and fax to RICS HK office at +852 2537 2756