ABC WATERS PROFESSIONALS WORKSHOP

ABC Waters Project at Punggol Waterway Ridges (C39)

Organised by The Institution of Engineers, Singapore
Date: Friday, 26 May 2017

Time: 1.00pm – 6pm  
*Registration starts at 12.30pm

Location/ Venue: Auditorium, Tampines Regional Library (Level 3)  
31 Tampines Ave 7 Singapore 529620  
Proceed to Punggol Waterway Ridges after tea break for site visit

Fees:  
(inclusive of prevailing GST and a tea break of light refreshments)  
S$60.00/- per pax (for IES and Supporting organisation Members)  
S$80.00/- per pax (for Non-Members)

CPD/ PDU:  
(i) CPD for SIA-BOA Registered Architect (Pending).  
(ii) PDU for PEB PE (Pending for all engineering branches/ disciplines).  
(iii) 4 PDUs for IES/ACES QECP (Confirmed).  
(iv) 4 PDUs for ABC Waters Professionals (Confirmed).  
(v) CPD for SILA Accredited Landscape Architect (ABC) (Pending).  
(vi) PDU for IES CEng (Pending)

For Whom: ABC Waters Professionals, QECPs, Architects, Engineers, Landscape Architects and Academics
<table>
<thead>
<tr>
<th>Time</th>
<th>Activity</th>
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<tbody>
<tr>
<td>12.30pm</td>
<td>Auditorium, Tampines Regional Library (Level 3)</td>
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<td>31 Tampines Ave 7, Singapore 529620</td>
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<tr>
<td>1.00pm – 1.30pm</td>
<td>ABC Waters Programme -- Integrating large-scale ABC Waters Design</td>
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<td>features within a public housing precinct</td>
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<td>By Mrs Ong Geok Suat, Principal Engineer, PUB</td>
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<td>1.30pm – 2:00pm</td>
<td>Architectural design of Waterway Ridges</td>
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<tr>
<td></td>
<td>By Mr Colin Ng Shao Wei, Vice President (Architectural), Surbana Jurong</td>
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<td>Private Limited</td>
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<tr>
<td>2:00pm – 2:45pm</td>
<td>Integration of ABC Waters design features with landscape – Planning</td>
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<td></td>
<td>and Design</td>
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<td>By Mr Tobias Baur, Partner, Ramboll Studio Dreiseitl Pte Ltd</td>
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<tr>
<td>2:45pm – 3:30pm</td>
<td>Project Construction of ABC Waters design features</td>
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<td>By Mr. Koh Jian Binn, ABC Waters Consultant, Netatech Engineering Pte Ltd</td>
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<tr>
<td>3:30pm – 3:50pm</td>
<td>Tea break w/ refreshments</td>
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<td><em>Proceed to Punggol Waterway Ridges after the tea break</em></td>
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<tr>
<td>3:50pm - 4:20pm</td>
<td>Travel to Punggol Waterway Ridges</td>
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<td>4:20pm – 5:30pm</td>
<td>Site Tour of Punggol Waterway Ridges.</td>
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<td>By Mr Choo Kiang Siang, Senior Landscape Architect, Ramboll Studio</td>
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<td>Dreiseitl Pte Ltd</td>
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<td>Estimated to end at 6pm</td>
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**INTRODUCTION**

**Brief Description of the Project**

Waterway Ridges is a pilot project (a collaboration between PUB and HDB) to test the effectiveness and feasibility for implementing ABC Waters design in a holistic manner within a public housing precinct.

ABC Waters design features like bioretention basins and vegetated swales are integrated with the landscape area within the precinct. The features collect rainwater runoff from roofs, roads, playgrounds and other areas in the precinct and allow it to seep through plants and soil media slowly. Sediments, nutrients and other impurities in the runoff will be removed by filtering through the plants and soil. Filtered clean water will be “show-case” in a water feature within the precinct and then flow into the nearby Punggol Waterway which will eventually flow to the reservoir.

The features detain and treat rainwater runoff from about 57% of the precinct area. Rainwater runoff will also be stored in gravel layers below the features to maintain a pre-development peak flow for all rain events up to a design storm of 10 year Return Period.

This workshop is suitable for ABC waters professionals, QECPs as well as Architects, Engineers and Landscape Architects to attend.
**Speaker’s Profile**

**Mrs Ong Geok Suat**

Mrs Ong Geok Suat graduated with a Bachelor in Civil Engineering from National University of Singapore. She also obtained a Master of Applied Science in Environmental Engineering from University of Toronto, Canada. Geok Suat has over 20 years of experience in planning and designing both drainage and used water infrastructure as well as in the operation and management of water reclamation and NEWater facilities. She is a Principal Engineer in PUB and involved in the ABC Waters Programme since 2007. She was instrumental in the formulation and implementation of ABC Waters Design Guidelines, ABC Waters Certification Scheme and ABC Waters Professional Programme. She implemented the first rain garden in Balam Estate and has been actively involved in the pilot testing of ABC Waters Design features and the review of “Engineering Procedures for ABC Waters Design features”. She also initiated R&D work on soak away rain garden, engineering soil and the precinct scale ABC Waters pilot project at Punggol Waterway Ridges.

She is one of the trainers for ABC Waters Professional Programme organized by IES and Green Mark Manager Course organized by BCA.

**Mr Colin Ng Shao Wei**

Colin Ng graduated from the National University of Singapore with Masters of Architecture in 2003, and has 2 years of working experience with Design Link Architects, before joining Surbana.

Colin is active in designing several housing projects for HDB Towns, some of which have obtained coveted HDB and BCA design & construction awards. He is also involved in several private Executive Condominium and Condominium projects in Singapore. Colin has also successfully designed and seen through several interesting people-related projects such as neighbourhood parks in Punggol and Jurong West and a mixed-use Community Center in Buona Vista. One of his completed project Casa Clementi (HDB public housing comprising 2234 units) has won HDB Design Award in 2013, as well as the prestigious international PMI Distinguished Project Award and others. Colin is also involved in designing, planning several infrastructure works & new ancillary buildings for Changi Airport, as well as industrial developments in Jurong and Ang Moh Kio.

**Mr Tobias Baur Akbw, Sila**

Tobias Baur joined Ramboll Studio Dreiseitl (formerly known as Atelier Dreiseitl) in 2004 in Ueberlingen, Germany. In 2008, he co-spearheaded the establishment of the Singapore office and was subsequently appointed Partner in 2016. Throughout his 12-year career at Ramboll Studio Dreiseitl, his experience has become essential for the completion of large-scale projects, bringing invaluable expertise and leadership in directing local and international teams.

Tobias’s work at Ramboll Studio Dreiseitl has equipped him with immense knowledge and expertise in areas beyond urban planning and public open space design, creating liveable cities with an enhanced social and ecological value. Besides being the project director for the award-winning Bishan - Ang Mo Kio Park Project in Singapore from its inception to completion, Tobias recently has worked on competitions and built projects in Europe, Middle East, Australia and Asia.

With a keen interest in Climate Adaptation and Water Sensitive Urban Design in both urban and natural settings, he has sat on advisory panels for developments in Malaysia and Singapore, and gives regular lectures as part of the ABC Waters Professional Course. Currently, Tobias is an adjunct professor at the Master of Landscape Architecture Programme at the National University of Singapore.

**Mr Koh Jiann Bin**

Jiann Bin is the director for consulting at Netatech Engineering in stormwater management, detention, harvesting, treatment, and irrigation systems. He has excellent experience in the projects for condominiums, public housing, as well as institutions. As a landscape architect, Jiann Bin was intensively involved in the design work and site implementation of landscape design for hotels, resorts and condominiums. Jiann Bin is an accredited landscape architect and a registered ABC Waters Professional. He currently represents SiLA on the ABC Waters Programme committee. Jiann Bin holds a master’s degree in landscape architecture and a degree in civil engineering. He is also a CUGE Certified Practicing Horticulturist and an ISA Certified Arborist.
TERMS & CONDITIONS

Registration
- Online registration at https://www.ies.org.sg/event_view.php?event_id=2038
- Registration will be on a first-come-first-served basis as seats/places are limited and will only be accepted upon the receipt of full payment or otherwise indicated.
- Please notify us in writing of any change in your registration 7-working days before the commencement date.
- **We only accept online registration with full payment or otherwise indicated.**

Registration Closing Date/ Time & Payment
- Registration closing date/ time: before 1630hours, 12 May 2017 (Friday)
- Cheque or Cashier’s Order should be crossed A/C payee only, Payee: IES and post to:
The Institution of Engineers, Singapore
70 Bukit Tinggi Road
Singapore 289758
Attention: Mr. Yue Kok Sun
(At the back of your Cheque, please indicate your Name and PWR17)

Confirmation of Registration
- Confirmation of registration will be forwarded to your registered/ recorded email address within 7-working days prior to the commencement date.

Withdrawals/ Refunds of Fees
- Notice of withdrawal must be given in writing to IES, policy on refund of fee is as follows:
  - Within 7-working days before the commencement date: No refund.
  - Full payment is still applicable if you are not able to turn up for the workshop.
  - Replacement is allowed but restricted to once only with written notice, it must be received by IES 7-working days before the commencement of the workshop. However, when an IES member is replaced by a non-member, the participant has to pay the difference in the relevant fees.
  - FULL refund if IES receives your written notice of withdrawal at 14-working days before the commencement of the workshop.
  - For e-payment, a 4.5% (online transactional service charges) will be borne by the Registrant.
  - No refund otherwise.
  - No show of participant would not be accepted as reason for withdrawal/refund.
Cancellation/ Postponement
- Changes in Venue, Dates, Time and Speakers for the workshop can occur due to unforeseen circumstances. IES and/or the Organiser(s) reserves the full rights to cancel or postpone the Site Visit under such circumstances without prior reasons. Every effort, however, will be made to inform the participants or contact persons of any cancellation or postponement.
- Fees will be refunded in FULL if any Event is cancelled by IES and/or the Organiser(s).
- Alternate Payment via AXS Kiosks
- Please select/ input/ key in:
  Course/ Event ID 2038
  Remarks PWR17
- Please keep, retain and furnish your proof of payment(s), receipt(s) or e-receipt(s), if any, during registration.

Contact Persons

Primary: Mr. Yue Kok Sun
(e): koksun@iesnet.org.sg (d) +65 6460 4245 (t): + 65 6469 5000

# Fees are with prevailing GST and include light refreshments.

# Minimum of 40(forty) registrants is required to form the workshop.

# Workshop’s duration excludes registration, meal and/ or break time(s).

# For IES Members @ S$60.00 (with prevailing GST) per pax, please provide your IES/ACES-QECP/ABCWPs/SIA/SILA/BOA-SIA Membership Number, register online and transact payment via your VISA/ MasterCard or other appropriate modes, if any.

# For Non-members @ S$80.00 (with prevailing GST) per pax, please register online and transact payment via your VISA/ MasterCard or other appropriate modes, if any.

# Certificate of Attendance will **NOT** be issued, however, an email proofing your attendance will be forwarded to your recorded/ registered email address normally within 14 to 21 working days after the workshop.

# Accreditation of CPD PDU for (i) Board of Architects (BOA) Registered Architect, (ii) Professional Engineers Board (PEB) Professional Engineer, (iii) IES/ACES Qualified Erosion Control Professional, (iv) IES ABC Waters Professional, **including ABCWPs who are registered/qualified under SIA or SILA ABCWPs Registration Scheme** (v) SILA Accredited Landscape Architect and/ or Attendees; your Name and Reg. Arch./PE/QECP/ABCWP/SILA ALA Registration Number(s) will be electronically filed with or manually submitted to (i) BOA-SIA CPD Office, (ii) PEB, (iii) IES/ACES QECP Registry, (iv) IES ABCWP Registry and/or (v) SILA Accreditation Office normally within 14 to 21-working days after the Seminar.