



ABC Waters Professionals Annual Webinar 2020

Date: 10 December 2020, Thursday

Time: 1700 hours – 1900 hours (Registration starts at 1645 hours)

Location: **Zoom Webinar**

(a) IES/ ACES /SIA /SILA /SCAL Members and;

(b) PUB/ HDB /LTA /NParks Officers.

S\$21.40 per pax

Fees: (c) Non- Members/Public.

S\$42.80 per pax

CPD/ PDU: **Approvals/ Confirmations for: -**

- (i) **PDU for PEB PEs (Pending for all engineering branches/disciplines).**
- (ii) **PDU for IES C.Engs (Pending for listed engineering sectors under <https://www.charteredengineers.sg>).**
- (iii) **2 PDU for IES/ACES QECPs (Approved)**
- (iv) **2 PDUs for ABC Waters Professionals, including ABCWPs who are registered/ qualified under SIA or SILA ABCWPs Registration Scheme. (Approved)**
- (v) **CPDs for BOA-SIA Registered Architects (Pending).**
- (vi) **CPDs for SILA Accredited Landscape Architects (Pending).**

Target Audience: ABC Waters Professionals, QECPs, Architects, Engineers, Landscape Architects and Academics.

Online Registration: <https://bit.ly/33bDBY7>

An annual webinar where Engineers, Architects, Technical Specialists and Practitioners of PUB Singapore's National Water Agency - ABC Waters Programme come together to share best practices on Certified Projects and updates on ongoing ABC Waters Projects.

PROGRAMME OUTLINE

Time	Description
1700 – 1710	Opening Address <i>by</i> Chairman & Co-Chairman, ABC Waters Professional Monitoring Committee
1710 – 1730	Lakeside Gardens: Water Treatment and Flood Mitigation Design <i>By</i> Ms Abby Ng, Deputy Director, Jurong Lake Gardens Development National Parks Board
1730 – 1750	ABC Waters design features at Bukit Timah First Diversion Canal <i>By</i> Ms Poh Li Ping, Environmental Engineer/Deputy Project Manager Jacobs Engineering Singapore Pte Ltd
1750 – 1755	Break
1755 – 1820	ABC Waters Design at The Woodleigh Residences & Woodleigh Mall <i>By</i> DP Architects Pte Ltd, Salad Dressing Pte Ltd and Netatech Pte Ltd
1820 – 1850	Q&A with Panel of Speakers
1850 – 1900	Conclusion

Presentation Synopsis and Speakers Profiles

1. Lakeside Gardens: water treatment and flood mitigation design

By Mr Abby Ng, Deputy Director, Jurong Lake Gardens Development, National Parks Board

Synopsis

The 54 ha Lakeside Garden, bordering the western shore of Jurong Lake, celebrates water, the key characteristics of the site. A extensive suite of water treatment features are deployed to deal with stormwater runoff treatment from the surrounding catchment as well as from the park itself. These include the naturalisation of a concrete canal on site, maximising the use of vegetated and bioretention swale to treat storm water run-off and the use of cleansing wetlands to treat lake water for a children play area.

The Garden is also designed to be inundated during extreme storm events. The talk will also present the design of the landscape to deal with floods, and work with fluctuating lake water level to create landscape attractions.

Speaker Profile

Ms Abby Ng is an accredited Landscape Architect with 10 years of experience designing and implementing public parks and gardens at National Parks Board, Singapore. She is currently the Deputy Director of Jurong Lake Gardens Development and has worked on Jurong Lake Garden's design and construction since 2016. She curates the offerings of the Gardens and is instrumental to the incorporation of innovation and technologies that promote sustainability in the built environment. Prior to Jurong Lake Gardens, she worked on the planning, design and construction of more than 15 park projects in Singapore of diverse character, ranging from nature parks to civic district urban spaces.

2. ABC Waters design features at Bukit Timah First Diversion Canal

By Ms Poh Li Ping, Environmental Engineer/Deputy Project Manager

Jacobs Engineering Singapore Pte Ltd

Synopsis

Bukit Timah First Diversion Canal was completed in the 1970s to alleviate flooding in Bukit Timah catchment area. The diversion canal is about 3.2 km long diverts the flow from Upper Bukit Timah area into Sungei Ulu Pandan. There are 2 main ABC Waters features nodes within the project, namely Holland Plain and Holland Green. These 2 nodes have successfully exhibited the functions of 4 different types of ABC Waters design features: vegetated swale, rain garden, sedimentation basin and surface flow constructed wetland. A vegetated swale and rain garden are grouped as a pair in the Holland Plain node, while a sedimentation basin and constructed wetland are designed as a treatment train at the Holland Green node. This is to maximize the effectiveness in improving the water quality of stormwater runoff while reducing the maintenance efforts. Apart from improving the quality of runoff, these features help in detaining the peak stormwater flow during a heavy downpour.

Jacobs Engineering will be sharing the experience gained from the Bukit Timah First Diversion Canal project. The design procedures based on ABC Waters design guidelines will be demonstrated. The implementation challenges faced by the project team will also be further elaborated in the presentation.

Speaker Profile

Ms Poh Li Ping is an Environmental Engineer/Deputy Project Manager at Jacobs Engineering Singapore Pte Ltd. She obtained her post graduate degree in Civil Engineering from the National University of Singapore (NUS), specialising in Infrastructure Project Management. She joined CH2MHill Singapore Pte Ltd (now known as Jacobs Engineering Singapore Pte Ltd) in 2012, where she was involved from planning, designing to implementing several Active, Beautiful, Clean Waters (ABC Waters) projects in Singapore. Her recent completed ABC Waters Projects as an ABC Waters designer are Siglap Canal, Siglap Outfall, Faber Hill Estate, Sungei Pandan Kechill and Bukit Timah First Diversion Canal. She enjoys the process of integrating Blue-Green infrastructures in public spaces with the support from the multi-disciplinary stakeholders.

3. ABC Waters Design at The Woodleigh Residences and Woodleigh Mall

Synopsis

The Woodleigh Residences and The Woodleigh Mall is an up and coming Mixed-Use integrated development nestled within the future Bidadari estate. This development comprises of 11 residential towers with a total of 667 units, 3 levels of retail, the Bidadari Community Club and the Bartley Neighbourhood Police Centre. The challenge behind Woodleigh's ABC Waters design was to treat runoff from at least 50% of the project's site area.

The roof of the commercial podium on which 11 residential towers and communal facilities are designed upon serves as an expansive landscape deck that overlooks Alkaff Lake opposite the development. Runoff from this expansive deck and from the residential blocks are treated by ABC Waters Design Features strategically designed across this landscape deck. Besides contributing to the softscape design and bio-diversity of the development, stormwater runoff treated by these ABC Waters Design Features, using plants and soil media, improves the water quality prior to discharging it into Alkaff Lake.

Speakers' Profiles

<to be provided by DPA>

Other Details, Information and Remarks

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Reminder(s) will be emailed within 7-working days or ASAP prior to the Event's commencement date.

The Institution, Chapter and/ or the Organiser(s) reserves the right to make appropriate changes at its discretion although every effort will be made to inform participants in time.

Event's duration may excludes registration, meal and/ or break time(s), if any.

No certificate of attendance will be issued, however, an email will be sent within 7 to 14-working days after the event to certifying your attendance.

Accreditation of CPD PDU for (i), (ii), (iii), (iv), (v) and (vi) will be filed to the respective Accreditation Authorities/ Bodies and/ or Professional Registries, within 7 to 14-working days after the Event.