DETAILS

Environmental Requirements and Plan Submission Procedures – Friday, 09 March 2007

Seminar Fee:	
SIA/IES Member	S$ 73.50 (incl GST)
BOA/CIJC Member	S$ 110.25 (incl GST)
Non-Member	S$ 147.00 (incl GST)
Closing Date for Registration	**02 March 2007**
Enquiry (call Ms Jasmine Chan)	Tel: (65) 6226 2668
	Fax: (65) 6226 2663

REGISTRATION

Name: _____

NRIC No: _____

Membership No: [ ] SIA _____ [ ] IES _____

[ ] CIJC (Pls specify Institution) _____

[ ] BOA Reg No_____ [ ] Non-Member

Organisation: _____

Address: _____

_____ S ( )

Tel: _____ Fax: _____

Email: _____

Contact Person: _____

Bank/Cheque No: _____ Amount S$ _____

Please forward your registration form and crossed cheque payable to "**Singapore Institute of Architects**" before the closing date to:

Ms Jasmine Chan
Singapore Institute of Architects
79B Neil Road, Singapore 088904

Registration will be on a First-Come-First-Served basis and will be accepted upon receipt of registration form and payment to SIA. Registration by fax will only be confirmed upon receipt of payment.

Cheque payment for this activity **should not be** combined with payment for other SIA events/courses.

Fees paid are non-refundable under all circumstances. Replacement of participant will be allowed only if notification is made at least 7 days before the event.

Where a Non-Member replaces a Member (must be from the same organisation) the fee difference will have to be made good to SIA prior to the event.

CPD PROGRAMME SINGAPORE INSTITUTE OF ARCHITECTS 2007/014/ms/jc

CPD PROGRAMME

SIA/IES/NEA/PUB
jointly presents

Environmental Requirements and Plan Submission Procedures

Friday, 09 March 2007

1.00pm	Registration
1.30pm	Welcome Note by Singapore Institute of Architects
1.35pm	Revised Code of Practice on Environmental Health (COPEH) (2005 Edition) *by Mr Yip Ngai Yin - Environmental Health Executive, NEA*
1.55pm	Common Mistakes Made on PC Plan Submissions *by Mr Lee Aik Beng - Executive Engineer, NEA*
2.25pm	Regulations On Construction Noise and Control Measures *by Mr Khairul Sani B Samsudin – Executive Engineer, NEA*
2.55pm	Management of Catchment Water Quality – Inspection and Rehabilitation of Private Sewers *by Mr Goh Pin Cheh - Executive Engineer, PUB*
3.25pm	Coffee Break
3.55pm	Water Efficient Buildings *by Ms Wong Wai Cheng – Manager, PUB*
4.25pm	Water Sensitive Urban Design Concepts for Active, Beautiful and Clean Waters *by Mrs Ong Geok Suat – Senior Manager, PUB*
4.55pm	Questions & Answers
5.25pm	End of seminar

VENUE

Civil Service College
Auditorium – Level 1
31 North Buona Vista Road
Singapore 275983

ACCREDITATION

A Singapore Institute of Architects (SIA) registered activity. Participating in this activity will accrue **5** points towards the requirements of the SIA Continuing Professional Development Programme.

Registered as a CES Provider of American Institute of Architects (AIA). Participation in this activity will accrue Learning Unit Hours.

Supported by the Royal Institute of British Architects (RIBA) as valid CPD Hours for its members.

SYNOPSIS

Revised Code of Practice on Environmental Health (COPEH)(2005 Edition) - The Code of Practice on Environmental Health (COPEH) provides the guidelines to address environmental health concerns in the design of buildings. The Code spells out the objectives to be met and stipulates only the minimum basic design criteria. QPs may exercise flexibility and creativity to meet the stated requirements, so long as design outcomes satisfy the stated objectives. The latest edition of the COPEH addresses the changing trends of public health in recent years and is the result of inputs from various stakeholders.

Regulations on Construction Noise and Control Measures - This short session is to share with participants the regulatory and enforcement regime on controlling noise at construction site in Singapore. Some do's and don'ts of noise control measures will be highlighted. The session will also give some insights on the characteristics of public complaints on noise at construction sites.

Common Mistakes Made on PC Plan Submissions - The Pollution Control (PC) plans are submitted to the Central Building Plan Unit (CBPU) of the Pollution Control Department for clearance. CBPU vets the PC plans to ensure the necessary pollution control requirements and facilities have been duly incorporated in the proposed developments. This talk will focus on the common mistakes made by Qualified Persons (QPs) on PC plan submissions. With the awareness of these common mistakes, QPs are able to avoid making the same mistakes in their future PC plan submissions. It will reduce the overall PC plan processing time and the QPs could receive the clearance letter thereafter.

Management of Catchment Water Quality - Inspection and Rehabilitation of Private Sewers - When Marina Barrage is completed by end 2007, Singapore will have a new reservoir. The damming of Sungei Serangoon and Sungei Punggol will also create two other new reservoirs in the north eastern part of Singapore. The three new reservoirs will increase the water catchment areas from half to two-third of Singapore land area. With these new reservoirs, Singapore will be able to better harvest the rain that falls within the city areas where most Singaporeans live, work and play. These stable bodies of water can also be turned into beautiful spaces for the community to enjoy and this provides the opportunity to raise the quality of life for all Singaporeans. To realise the benefits, the efforts of 3Ps (people, private and public) is critical, in keeping the waters that flow into the reservoirs clean and free of pollution. Leaks from sewer pipes are a source of pollution identified to be of concern, following extensive studies by PUB and other agencies. PUB therefore, has embarked on the sewer rehabilitation programmes (2006-2012) to minimize sewer leaks, so as to prevent adverse impact on the cleanliness of the waters in the waterways and reservoirs.

Water Efficient Buildings - Water is a scarce and precious resource in Singapore. Singapore thus has to manage its growing water demand efficiently so as to stretch its limited water resources to the fullest. The efficient management of the water demand must necessarily entail the implementation of water conservation measures, besides the proper handling of the transmission and distribution network to minimise losses. On the non-domestic front, commercial/industrial customers are encouraged to run water efficient buildings by reviewing and reducing their water consumption and repairing leaking fittings promptly. They are also encouraged to recycle process water and substitute potable water with NEWater and sea water wherever feasible for their non-potable usage. Building owners are also encouraged to carry out water audits to take stock of their water usage and implement water conservation measures within their premises. Water efficiency is also included as part of the criteria for BCA's Green Mark Scheme for both existing and new buildings to help encourage more water efficient buildings.

Water Sensitive Urban Design Concepts for Active, Beautiful and Clean Waters - Integration of adjacent waterways with proposed development is encouraged, whilst satisfying the engineering requirements for drainage functions without posing any public safety, maintenance or environmental problems. This includes installing Water Sensitive Urban Design (WSUD) features under the Active, Beautiful and Clean (ABC) Waters Programme. WSUD aims to integrate stormwater treatment into the landscape, protect water quality and natural systems, reduce runoffs and peak flows and add value while minimising development costs. Qualified Persons together with the owners/developers can significantly enhance their development by incorporating into their design appropriate WSUD features. The presentation will cover the principles of WSUD and its benefits with examples of WSUD in local and oversea projects. It will share PUB's special channel for processing ABC projects.

SPEAKERS' PROFILE

Mr Yip Ngai Yin is the key officer coordinating the revision of Code of Practices for Environmental Health (COPEH). Mr Yip Ngai Yin has reviewed the COPEH together with various government agencies and professional bodies such as Public Utility Board, Institute of Engineers Singapore, Singapore Institute of Architects, the Restroom Association of Singapore and Building & Construction Authority. Mr Yip Ngai Yin holds a B. Eng (Hons) Civil Engineering from the Nanyang Technological University. He is currently working in the Environmental Health Department, National Environment Agency (NEA). His key appointment is on planning of nation-wide operations for public sanitation (e.g. environmental cleanliness and clean public toilets) and the control of environment-related infectious diseases (e.g. dengue fever, malaria).

Mr Khairul Sani B Samsudin has been with the National Environment Agency (NEA) and then Ministry of the Environment (ENV) since 1993. He is currently with the Pollution Control Department at NEA holding the position of executive engineer since July 06. Mr Khairul has held various positions in different departments in then ENV. He was with the Sewerage Department from 1993 to 1996, and with Waste Management Department from 1996 to 2006. Mr Khairul obtained his Bachelors Degree in Mechanical and Production Engineering in NTU in 1993.

Mr Lee Aik Beng graduated from the University of Singapore in 1980 with a degree in B Sc (Chemical Engineering). He is an Executive Engineer of the Central Building Plan Unit of the Pollution Control Department, National Environment Agency. He and his team members assess and evaluate new industrial developments to ensure that pollution control measures are incorporated into such developments. He also works with SCDF and other government agencies to jointly assess and evaluate the Quantitative Risk Assessment Study report for proposed hazardous industrial developments.

Mr Goh Pin Cheh graduated with a bachelor degree in engineering from NUS and obtained a master degree in environmental engineering from Stanford University. With more than 7 years of experience in the used water management and engineering, he is currently working in Water Reclamation Network Department, PUB, where he is a key member in the planning and management of the sewer rehabilitation programmes.

Ms Wong Wai Cheng graduated with a bachelor degree in engineering from NUS. During her 14 years with the PUB, Ms Wong has worked in the areas of customer supply, water treatment and water demand management. She currently oversees the planning, development and management of water conservation strategies in Singapore, including leakage and unaccounted for water control.

Mrs Ong Geok Suat graduated with a bachelor degree in engineering from NUS and obtained a master degree in environmental engineering from University of Toronto. With more than 10 years of experience in the used water management and engineering and some 5 years of experience in Stormwater Management, she is currently working in Catchment and Waterways Department, PUB, where she looks after Catchment Planning and Environmental Planning. Water Sensitive Urban Design is an element under Environmental Planning.