

# Workshop's Outline

Some of the issues to be discussed:

- The common parameters that affect water treatment
- Treating water of turbidity exceeding 1000NTU
- Treating water high in iron and manganese
- Implementing dam aeration, its benefit and the O & M aspects.
- Choice and affective function coagulants.
- Available additional benefit of jar test.



Topic No	Title of Topics
1	Methodology in Monitoring Water Quality for River Source
2	Methodology in Monitoring Water Quality in Impoundment/Dam
3	Methodology in Monitoring Water Quality along the Treatment Processes Train
4	Treating Water High in Iron and Manganese
5	Parameters in Raw Water that Influence and Affect Treatment
6	Raw Water Source, Quality and Abstraction
7	Objectives and Interpretation of Jar Test Results and Formulation of Reference Documents
8	Aeration of Potable Water Supply Dam
9	Selection of Water Treatment Chemicals
10	Selection of Water Treatment Processes
11	<p>Finding of Various Studies Conducted at the Sg Selangor Water Treatment Plant, Phase1 – (SSP1)</p> <p><b>Name of Study:</b></p> <p><b>Study No 1-</b> Clarifier Fitted with and without Lamelar Modules</p> <p><b>Study No 2-</b> Influence of Filter Sand Grading</p> <p><b>Study No 3-</b> Comparative Study on Use of Aluminium Sulphate (Alum) and Polyaluminium Chloride (PACl)</p> <p style="padding-left: 20px;">a. Effect on Raw Water pH</p> <p style="padding-left: 20px;">b. Performance in Iron and Manganese Removal</p> <p><b>Study No 4-</b> Effect of the Presence of Bivalve Mollusks in a Potable Water Treatment Plant</p>



Workshop:

## Practical Approach in Current Drinking Water Sources and Treatment – Challenges & Solutions

Date: 24<sup>th</sup> November 2015 & 25<sup>th</sup> November 2015 (1½ Days)

Time: 9:00am - 5:00pm || 9:00am - 1:00pm

Venue: ATTC Training Centre Sdn Bhd @ KIP

**Speaker**  
**Ir Chan Chiang Heng**  
 (KMN, AMN, AMS)  
 P.Eng., FIEM (Malaysia)  
 C. Eng., MCE, MCIWEM (U.K)

Organised by:



Co-organised:



ATTC TRAINING CENTRE SDN BHD

## Synopsis

The raw water sources to our WTP are from river, irrigation channel, bunded storage, direct dam abstraction and from river whose flow is augmented from dam releases. These sources are subjected to wide variation in water quality and abstractable water quantity. As such they pose incessant problems on treatment and abstraction. On dam management, timely release of discreet quantity has to be implemented to conserve impounded volume to tie over dry weather situation.

The workshop will highlight solutions to problems related to treatment and dam management. It is safe to assume these same problems will invariably confront operators of other treatment plants throughout the country. The solutions or findings are arrived at based on deliberation of the results of actual site studies, observations and experiments conducted by Ir. C.H. Chan and his supporting staff.

## Biodata of Speaker

**Ir Chan Chiang Heng** (KMN, AMN, AMS)  
P.Eng., FIEM (Malaysia)  
C. Eng., MCE, MCIWEM (U.K)

Ir. Chan Chiang Heng has been involved in the water industry since 1957 when he first worked in the Klang Gates Dam Project as a technical cadet. He qualified as an engineer in 1960 after passing Part I and Part II of the Institution of Civil Engineer Examinations (UK).

He is the second Malaysian made a Fellow of the prestigious Economic Development Institution after a course in the World Bank in 1974. He retired from the Public Works Depart in May 1983 as the Director of Water Supply, Selangor State.

From June 1986 to December 2012, he worked with the Taliworks Group of Companies responsible for the management, operation and maintenance of 9 water treatment plants and 4 dams under the various State Government Privatization Programme in the state of Selangor, Negeri Sembilan and Kedah. Thus he had encountered many challenges in treatment and their solutions and success in dam management. He well highlights knowledge and experience acquired in his presentation for the benefits of the participants.



## Agenda

### DAY 1 (24<sup>th</sup> November 2015, Tuesday)

8.30 am	Registration
9.00 am-10.15am	Session 1
10.15 am-10.45	Coffee Break
10.45 am-12.00 pm	Session 2
12.00 pm-12.45 pm	Group Discussion & Report
12.45pm-2.00 pm	Lunch
2.00 pm-3.15 pm	Session 3
3.15 pm-3.45 pm	Coffee Break
3.45 pm-4.15 pm	Group Discussion
4.15 pm-5.00 pm	Session 4

### DAY 2 (25<sup>th</sup> November 2015, Wednesday)

8.30 am	Registration
9.00 am-10.15 am	Session 5
10.15 am-10.45 am	Coffee Break
10.45 am-11.15 am	Session 6
11.15 am-11.45 am	Group Discussion & Closing
11.45 am-12.30 pm	Lunch/ Workshop End

# Registration Form

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Venue: ATTC Training Centre Sdn Bhd

No. 13A, Jalan IDA 1A, Taman Industri Desa Aman, 52200 Kuala Lumpur.

(GPS Coordinates: 3.209750, 101.605278)

Tel: 03-6263 9032

Please complete and return this form with payment to:

**Malaysian Water Academy Sdn Bhd (Ground Floor)**

**Attn: Training Coordinator**

No.24, Third Floor, Jalan Sri Hartamas 8, Taman Sri Hartamas, 50480 Kuala Lumpur.

Tel: 03-6201 1457/ 1562

Fax: 03-6201 1466

Email: hafis@mwa.org.my

Registration Fee Per Participant	6% GST Per Participant	Total Registration Fee/ pax Including 6% GST	No. of Pax	Total (RM)
<b>MWA Member</b> <b>RM720.00 per person</b>	<b>RM43.20</b>	<b>RM763.20</b>		
<b>Non MWA Member</b> <b>RM800.00 per person</b>	<b>RM48.00</b>	<b>RM848.00</b>		
<b>Grand Total (RM) :</b>				

### Participant's Details

Name: \_\_\_\_\_

MWA Membership No: \_\_\_\_\_

Contact No: \_\_\_\_\_ Email: \_\_\_\_\_

### Company's Details

Name of company: \_\_\_\_\_

Address: \_\_\_\_\_

Designation: \_\_\_\_\_

Contact No: \_\_\_\_\_ Fax No: \_\_\_\_\_

Signature & Company Stamp:

Enclosed is our cheque, No. \_\_\_\_\_ for RM \_\_\_\_\_ issued in favour " **MALAYSIAN WATER ACADEMY SDN BHD**"

**ACCOUNT NO: 277-000-23799 (HONG LEONG BANK BERHAD)**