REGISTRATION FORM
IGM GROUNDWATER SHORT COURSE SERIES
“GROUNDWATER PUMPING TEST ANALYSIS”
National Hydraulic Research Institute of Malaysia (NAHRIM)
1–2 October 2013

Name: ____________________________________________

Title: _____________________________________________

Designation: _______________________________________

Organisation: _______________________________________

Address: __________________________________________

City: ______________________________________________

Postcode: __________________ State: __________________

Tel: _____________________________________________

Fax: _____________________________________________

Email: ___________________________________________

REGISTRATION FEE
Member of IGM: RM600
Non-Member: RM700

MODE OF PAYMENT
A) Cheque or Bank Draft
Cheque No./Bank Draft No.: ____________________________
Bank Branch: _______________________________________

(All payment should be made to: Institut Geologi Malaysia)

Places are limited to 30 and therefore, acceptance will be on a first-come-first-served basis.

Please detach this form and mail to Secretariat:

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Institut Geologi Malaysia
c/o National Hydraulic Research Institute of Malaysia (NAHRIM)
Lot 5377, Jalan Putra Permai,
43300 Seri Kembangan, Selangor Darul Ehsan
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Lot 5377, Jalan Putra Permai,
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Organised by:

In collaboration with:
This is a two day training course designed to help groundwater professionals take their analysis of pumping tests to a new level.

1.0 BACKGROUND

Groundwater is a valuable natural resource. It has become an important source of water to meet the increasing requirement for domestic, industrial and agricultural needs and thus considered the only logical alternative to supplement the supply.

2.0 OBJECTIVES

This short course is modelled as a continuing professional development programme (CPD) by IGM and is offered to professionals involved in the groundwater industry. The aim of this short course is to increase the understanding of groundwater hydrogeologic properties and management of pumping test project. On completion of the course, the participants should be able to plan pumping test projects and analyse the test data. They should also be able to design well fields for water supply and dewatering systems needed for mining and other ventures. Participants will learn both manual and computerised aided methodologies.

The objectives of this Course are as follows:

- To understand hydrogeologic properties of aquifers and their significance.
- To enhance the knowledge in the management and utilisation of groundwater pumping tests data and analysis, and
- To increase skill in optimising the pumping test analysis in groundwater project.

3.0 COURSE OUTLINE

This Course will focus on the “Groundwater Pumping Test Analysis”

Day 1
Introduction to Groundwater Hydraulics:
Groundwater Hydraulics:
Hydraulic Gradients, Darcy’s Law, Steady State Flow, Non-steady state flow, Theim Solution
Well Hydraulics:
Non-steady state flow, Theis & Jacob Solution, Radius of influence, Superposition,
Image well theory, Partial penetration and well loss
Drawdown Calculations
Type Curve and Jacobs Solution
Leaky, Unconfined and Bounded Aquifers

Day 2
Corrections to Pumping Test Data:
Delayed yield, dewatering, anomalous readings, partial penetration, boundaries, anistrophy and others
Data Processing and Analysis for Slug test
Artesian flow test procedure
Well Performance Tests (step drawdown):
    Hantush-bierschenk method, Hazel graphical method, Eden-Hazel method
Determination of drawdown equation for a constructed well

4.0 WHO SHOULD ATTEND?

This course is for professionals involved in the groundwater industry. It is of particular interest to Groundwater consultants, contractors and Government Department engineers and Hydrogeologists, Researchers, Academicians, and other interested individuals.

5.0 KEY COURSE TOPICS

Substantial number of pages of lecture notes have been written specifically for this course. Practical aspects are particularly emphasised through the study of illustrative case histories of groundwater development and management.

6.0 ACCOMMODATIONS

Attendees are to arrange own accommodation.