IAGI COURSE 2018

Overpressure in Sedimentary Basins Workshop :

Mechanism, Prediction, and It's Application to Geohazard and Petroleum Systems Analysis, and some Case Studies from Indonesia's Sedimentary Basins

Bandung, April 23rd - 27th, 2018

Instructor:
Ir. Agus M. Ramdhan Ph.D
(Geological Engineering ITB)

Organized by:
IAGI
LEARNING CENTRE

About The Course

Overpressure analysis may be a routine job for everyone working in the oil industry. The analysis in the industry may mainly be dedicated to ensure that the geological objective can be achieved safely by drilling. Overpressure is a geological phenomenon, and like other geological phenomena, if we ignore geology in analysing overpressure, the result will most likely be wrong. Therefore, this course will discuss the very basic of the geology of overpressure, so that the overpressure analysis could be performed as accurately as possible. The understanding of overpressure concept could also aid exploration program such as the exploration of 'unconventional' hydrodynamic trap and analysing sealing capacity of a trap. The course will also deal with this subject.

The course will comprise the introduction to subsurface pressure, data source to analyse subsurface pressure, overpressure generating mechanisms, overpressure prediction and estimation, practical application of overpressure, and introduction to the application of overpressure to petroleum play analysis. Overpressure cases in some Indonesia's sedimentary basins will also be discussed at the end of the course.
The course will be in an interactive format, i.e. the participants will actively be involved by doing lots of exercises.

Course Outline

Basic concept of subsurface pressure
o Normal hydrostatic pressure reconstruction
o Lihtostatic stress/overburden gradient
o Effective stress concept (Terzaghi's equation)
o Minimum horizontal stress/fracture pressure reconstruction
o Data source for subsurface pressure analysis

Overpressure generating mechanism
o Introduction to unloading overpressuring
o Disequilibrium compaction overpressuring
o Other generating mechanisms (e.g. buoyancy, lateral and vertical overpressure transfer, hydraulic head)

Overpressure estimation methods
o Equivalent depth method
o Eaton's method
o Bowers' method

Practical overpressure application (well design)
o Mudweight program
o Casing program

The application of overpressure to hydrocarbon play
o Unconventional' hydrodynamic trap
o Overpressure vs sealing capacity of a trap
o Modified' Gussows' principle

Overpressure in Indonesia's sedimentary basins
o Overpressure in North Sumatra Basin
o Overpressure in South Sumatra Basin
o Overpressure in East Java Basin
o Overpressure in Lower Kutai Basin
o Overpressure in Central Sumatra Basin

Who Should Attend

All personnel who are involved in Drilling Operations (including Operations Geologists, Drilling Supervisors, and Drilling Engineers); geophysicists, exploration manager, geoscientists, petroleum engineers, well engineers, production technologists, reservoir engineer and other personnel who work in oil and gas industry.

About The Instructor

Ir. Agus M. Ramdhan, Ph.D.

Is a lecturer at the Department of Geology, Institut Teknologi Bandung (ITB). He received a scholarship from Total E&P Indonesie (TEPI) to pursue his PhD study at Durham University, UK. Durham is well known as one of the biggest overpressure research centre in the world. He is an active member of IAGI (Indonesian Association of Geologist) and EAGE (European Association of Geoscientists and Engineers).

He maintains his overpressure research by actively publishing his research in scientific journals (e.g. Petroleum Geoscience and AAPG Bulletin) as well as by presenting it in scientific meeting (e.g. AAPG workshop, EAGE workshop, IPA, and IAGI).Currently, he is an investigator in a multi-sponsor advanced overpressure research at Durham, and also one of main investigators at a multi-sponsor overpressure research at ITB (www.inov-id.com). He got Best Paper Geology and Best Paper Overall on 38th IPA Conventian and Exibition Jakarta.

Investment Fee

IDR 19.750.000 ,- / participant

>> The course fee includes meals (2x coffee break and lunch), training kits, training materials, group photograph, certificate. Excluded accomodation & VAT.
In order to allow sufficient time for arranging travel and processing document, participants are recommended to make an early enrollment.

Cancellation, Substitution & Non Attendance Policy

Tuition fees are trasferable but not refundable. Notification is required to substitute another participant, no later 5 working days prior to the program, should the nominated person be unable to attend. Late cancellation sometimes causes event to be abandoned. Non attendance participant will be full charged as all preparations will have been done.

Information & Registration

IAGI Learning Centre / Biro Kursus IAGI

Jakarta Secretariat : Crown Palace, Blok C-8
Jl. Prof. DR. Soepomo, SH. No.231, Tebet - Jakarta 123870
Phone/Fax: (62-21) 8370 2949 / 8370 2577

Bandung Office : *Teak Wood Building*
Jl. Cikutra Barat, Pasir Reuma No.84, Bandung 40133, Indonesia

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REGISTRATION FORM

Course Title	: **Overpressure in Sedimentary Basins Workshop : Mechanism, Prediction, and It's Application to Geohazard and Petroleum Systems Analysis, and some Case Studies from Indonesia's Sedimentary Basins**
Dates	: April, 23rd - 27th, 2018
Venue	: Bandung, West Java
Investment Fee	: IDR 19.750.000,- / Participant
Instructor	: Ir. Agus M. Ramdhan Ph.D

PARTICIPANT (Kindly complete the data)

Title : *Mr. ☐ /*Mrs. ☐

Attendance Name : _____

Nick Name : _____

Job Title : _____

Company : _____

Office Address : _____

Phone/Fax : _____

Mobile Phone Number : _____

Personal Email : _____

IAGI Member : *Yes ☐ /*No ☐

**(Kindly √ appropriate square)*

PAYMENT METHOD BY (Kindly ✓ appropriate square):

☐ Bank Transfer in full amount to:

Ikatan Ahli Geologi Indonesia
Bank Mandiri
Account Number : 123 0085 005314

☐ Invoice, send addressed to:

PLEASE SEND THIS FORM TO EMAIL : birokursus.iagi2@gmail.com & **RECONFIRM YOUR REGISTRATION TO IAGI LEARNING CENTRE** Hp: 0815 6200 197 (Hari)

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