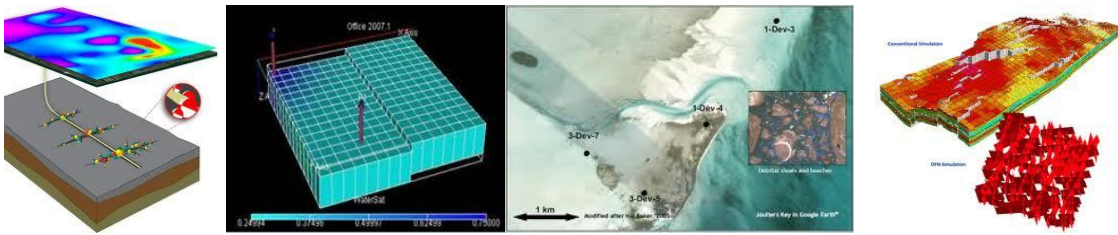


## Dynamic Reservoir Characterization of Fractured Reservoirs



**12 - 16 March 2012 (5-days)**  
**Bali, Indonesia**



**Expert Course Trainer :**  
**Thomas L. Davis**  
**(Colorado School of Mines)**

The Indonesian Association of Geophysicists

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**12 - 16 March 2012 (5-days), Bali, Indonesia**

Course fee : Rp 26.500.000 (Member)  
Rp 27.500.000 (Non-Member)

(Includes: lunch & coffee break, course material, course kit, certificate, photo group)

**HAGI REGULAR COURSE 2012**  
The Indonesian Association of Geophysicists

## **COURSE OBJECTIVE**

Injection or depletion processes cause dynamic changes in fractured reservoirs in pressure, saturation, permeability, etc. The most accurate geophysical tool for monitoring these changes is time-lapse multicomponent seismology. Studies over the past decade by the Reservoir Characterization Project (RCP) document the power of multicomponent seismology to observe and quantify these dynamic changes. RCP's studies illustrate that more accurate quantitative measurements of reservoir properties can occur through the time-lapse multicomponent seismic monitoring and that these measurements must be introduced for more accurate prediction of reservoir performance

## **COURSE PROGRAM**

### **Day 1 :**

- Introduction to multicomponent seismology: the motivation and inspiration.
- Introduction to time-lapse seismology: the need to monitor reservoirs.
- Multicomponent and time-lapse seismology: the right combination for dynamic reservoir characterization.

### **Day 2 :**

- Fractured reservoirs - an overview
- Applications and case studies – coalbed methane
- Fractured reservoirs - carbonates
- Case Study: Silo Field

### **Day 3 :**

- Fractured reservoirs - clastics
- Case Study: The Bakken Shale
- Tight gas sand fractured reservoir study

### **Day 4 :**

- Carbonate reservoir dynamic reservoir characterization
- CO<sub>2</sub> flood monitoring, gas injection
- Case Studies: Vacuum and Weyburn Fields

### **Day 5 :**

- The road ahead – insights through a compendium of case studies and examples.

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## ABOUT THE INSTRUCTOR



Thomas L. Davis is currently a professor of geophysics at the Colorado School of Mines, where he teaches courses in seismic interpretation and integrated exploration and development. He is founder and co-director of the Reservoir Characterization Project, an industry-funded consortium, applying multicomponent seismic to improve hydrocarbon recovery. In addition to his teaching and research activities, he consults worldwide in the field of seismic interpretation. He holds a PhD in geophysical engineering from the Colorado School of Mines, an MS in geophysics from the University of Calgary, and a BE in geological engineering, geophysics option, from the University of Saskatchewan. Memberships include SEG, AAPG and a host of other geoscience and engineering societies.

## INFORMATION AND REGISTRATION

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# HAGI REGULAR COURSE 2012

## REGISTRATION FORM

Course Title : **Dynamic Reservoir Characterization of Fractured Reservoirs**  
Dates : **March 12-16, 2012**  
Venue : **Bali, Indonesia**  
Instructor : **Thomas L. Davis (Colorado School of Mine)**  
Course Registration Fee\* :  **Rp. 26.500.000,-** (HAGI Member) /  **Rp. 27.500.000,-** (HAGI Non-Member)  
*\*(Kindly ✓ appropriate square)*

### **PARTICIPANT** *(Kindly complete the data)*

Title\* : Mr.  /Mrs   
Attendance Name : \_\_\_\_\_  
Job Title : \_\_\_\_\_  
Company : \_\_\_\_\_  
Office Address : \_\_\_\_\_  
Phone/Facsimile : \_\_\_\_\_  
Mobile Phone Number : \_\_\_\_\_  
E-mail Address : \_\_\_\_\_  
Contact Person : \_\_\_\_\_  
Phone \_\_\_\_\_ E-mail \_\_\_\_\_  
HAGI Member\* : Yes  /No

*\*(Kindly ✓ appropriate square)*

### **Special Notifications :**

The Investment Fee includes meals (2x coffee break and lunch), course materials, course kits, group photograph, and certificate (exclude hotel and tax). In order to allow sufficient time for arranging travel and processing document, participants are recommended to make an early enrollment. Unless prior arrangements are made by HAGI, payment may be required well 14 days in advance of the course date to guarantee your seat. Registration will be closed on 14 days before course date. Late enrollment may result in course cancellation.

### **PAYMENT METHOD BY** *(Kindly ✓ appropriate square) :*

Cash addressed to HAGI Secretariat  Invoice, *send addressed to :*

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*Himpunan Ahli Geofisika Indonesia*

*Bank BNI Cab. Menteng, Jakarta Pusat*

*AC : Rupiah (Rp) 0010740147 /Dollar (US\$) 0010740158*

**PLEASE FAX THIS FORM TO : +6221.5250040 or EMAIL : [training.center@hagi.or.id](mailto:training.center@hagi.or.id) & RECONFIRM YOUR REGISTRATION TO HAGI TRAINING CENTER, CP : Arida Chyntia Andriani Phone +6221.5250040 /Mobile +6281.288924225**

**Let's register yourself right now!**

**HAGI Secretariat : Patra Office Tower, 20<sup>th</sup> Floor, Suite 2045  
Jl. Jend. Gatot Subroto Kav. 32-34 Jakarta Selatan 12950, Indonesia  
Phone/Fax : +6221.5250040  
Visit our website : [www.hagi.or.id](http://www.hagi.or.id)**

**Cancellation, Substitution & Non Attendance Policy :** Tuition fees are transferable but not refundable. Notification is required to substitute another participant, no later than 5 working days prior to the program, should the nominated person be unable to attend. Cancellation will only be considered, if being cancelled at least 1 (one) week before course exhibited. Late cancellation will be charge 50% from the course fee.