PRE-CONVENTION COURSE:
BASIC INTERPRETATION TECHNIQUES FOR
SEISMIC INVERSION

Instructor : Lee Chung Shen, Senior Technical Advisor, CGG GeoSoftware, Far East Region
Dates : 15-16 May 2017 (2-days)
Venue : PT. CGG Services Indonesia
Timor Room, Graha Paramita Building, 6th-Floor
Jl. Denpasar Blok D-2, Kuningan
Jakarta Selatan, 12940
Indonesia
Language : English
Cost : IDR 1.000.000 (IPA Individual Member)
      IDR 1.750.000 (Non-IPA Individual Member)

Includes : course manual, lunch and breaks.
We encourage Participants to apply as IPA Individual Member to get benefit for registration cost.

The workshop will discuss the scientific idea behind currently practiced industry-standard seismic inversion methods from viewpoints of concepts, workflows as well as recommended applications. It will demonstrate how seismic inversion results can effectively be used for analysis and better understanding of subsurface geology, enhance quality of interpretation and prospect risk assessment. It will further discuss how these results can aid in increasing productivity through planning for optimal well placement in different reservoirs ranging clastic, carbonate and unconventional. Several case studies will be included to further harness and demonstrate all the discussed topics. The full two days workshop will be instructor-led and lecture based.

ABOUT THE COURSE

Upon completion of the course, participants will understand how to interpret and analyze inversion results using elastic properties such as P-Impedance and \( V_p/V_s \) for:

- more accurate structural, stratigraphic interpretation, maps and volumetric
- detailed conversion of elastic properties into petrophysical reservoir properties
- effective drilling program based on clearer interpretation of the reservoir
- advanced reservoir description and characterization

EVENTS TIMELINE

Session 1
- Introduction to Seismic Inversion
- Benefits of Seismic Inversion
- Single Stack Inversion
- Case Study

Session 2
- Seismic Amplitude Variation with Offset (AVO)
- Intercept Gradient Inversion
- Elastic Impedance Inversion

Session 3
- Colored Inversion and Extended Elastic Impedance (EEI)
- Simultaneous Inversion
- Advanced Applications
- Case Study

Session 4
- Inversion QC and Process Summary
- Geostatistical Inversion
- Building Reservoir Models
WHO SHOULD ATTEND

Anyone interested and intend to learn how to interpret and analyze inversion results.

ABOUT THE INSTRUCTOR

Lee Chung Shen is a geoscientist with more than 10 years of experience in reservoir characterization, interpretation and modelling acquired through projects and technical pre-sales services for various clients in Asia-Pacific. Currently, the Senior Technical Advisor for CGG GeoSoftware, Far East, ChungShen has worked several projects with National Oil Companies, IOCs on seismic reservoir characterization using AVO and inversion over different geological environment within South East Asia basins.

He holds a Master degree in Petroleum Geology from University of Malaya, Malaysia and a Bachelor of Engineering degree in Petroleum Engineering from University of Technology Malaysia, Malaysia.

ChungShen has developed the specific skills as required to deliver CGG GeoSoftware’ s products and technical services for Advanced Quality Project workflows such as:

- Well Feasibility Study: Well Data QC and Analysis, Rock Property Analysis, Forward Modelling
- Advanced Feasibility Study (Rock Physics Study): Well Data QC and Analysis, Well Conditioning, Rock Property Analysis, Petrophysics, Rock Physics Modelling, Fluid Substitution, Forward Modelling, Inversion and Seismic-Well Ties
- Acoustic Impedance Inversion and Geostatistical Inversion (Single Stack)
- Simultaneous Inversion and Geostatistical Inversion (Multiple angle/offset stacks)
- Advanced Seismic Interpretation
- Regional Rock Physics Study

He has co-authored a paper for 2016 SEG entitled ‘Geostatistical reservoir characterization of deepwater channel, offshore Malaysia and 2016 IPA paper ‘Unravel the Oligocene-Miocene Depositional Architectures in the North Madura Platform using Seismic Stratal Volume, IPA16-629-G.

ChungShen is a member of AAPG (American Association of Petroleum Geologists), EAGE (European Association of Geoscientists & Engineers), SPE (Society of Petroleum Engineers) and GSM (Geological Society of Malaysia).

FOR REGISTRATION AND DETAIL INFORMATION, PLEASE CONTACT:

IPA SECRETARIAT
Indonesia Stock Exchange Building - Tower 2, 20th Floor (Suite 2001)
Jln. Jendral Sudirman Kav. 52-53
Jakarta 12190 - Indonesia
Telephone : (62-21) 515-5959
Facsimile : (62-21) 5140-2545; 5140-2546
E-mail : anna.sulistiyaningis@ipa.or.id
SHORT COURSE REGISTRATION FORM

Course title : Basic Interpretation Techniques for Seismic Inversion
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Attendee Name : __________________________________________ (Mr/Mrs/Ms)
Company : ___________________________________________________________
Telephone/Fax. : ______________________________________________________
E-mail address : _______________________________________________________
                (DO NOT LEAVE IN THE BLANK; OTHERWISE WE COULD NOT PROCESS THE REGISTRATION)
Mobile phone no. : _____________________________________________________
                (DO NOT LEAVE IN THE BLANK; OTHERWISE WE COULD NOT PROCESS THE REGISTRATION)
Contact Person : _______________________________________________________
Telephone/E-mail : ___________________________________________________

Payment Method : □ Cash addressed to Indonesian Petroleum Association (IPA)
                 □ Transfer addressed to Indonesian Petroleum Association (IPA)
                     IDR Account No. : 103-0085286843
                     USD Account No. : 103-0099609899
                     Name of bank : Mandiri Bank
                     Branch : Thamrin
                     Bank Address : Jl. M.H. Thamrin No. 5
                     City of Bank : Jakarta Pusat
                     Country : Indonesia
                     Swift Code : BMRIIDJA

Please return this form together with payment to the:
IPA SECRETARIAT
Indonesia Stock Exchange Building, Tower II, 20th Floor (Suite 2001)
Jln. Jendral Sudirman Kav. 52-53
Jakarta 12190
Telephone : 515-5959
Facsimile : 5140-2545; 5140-2546
E-mail : Anna.Sulistiyaningsih@ipa.or.id

Substitution, Cancellation and No-show policy:
• The Course registration is transferable. Written notification is required for substitution no later than 5
  working days prior to the course start date.
• No-show participant will be full charged
All requests must be submitted to Anna.Sulistiyaningsih@ipa.or.id