



Seminar: A Decade of Advancement in FWI

Denes Vigh, SLB
9 October | Abu Dhabi, UAE

SEMINAR OVERVIEW

The seminar targets FWI developments from its early developments to its present-day applications. It will also address the evaluation of objective functions from Least Squared (LS) to the recent Enhanced Template Matching (ETM), Time Lag (TL), Optimal Transport (OT) and dynamic matching.

It will shed light on acquisition and the frequency content of the data and its impact on the FWI workflow. Land, shallow water, and deep water will to be covered with real field data examples. The other intriguing feature is the 4D implementation of FWI. A summary of this will be presented during the course. Last but not least, improved physics will be discussed in terms of elastic FWI especially when it is a must to employ elastic propagation to ensure a successful FWI project.

SEMINAR OUTLINE

- Introduction to FWI
- Land FWI basics and preconditioning
- High-Res Land FWI
- Shallow water workflows
- MP FWI
- Diving wave penetration or and illumination
- Gradient optimization and line search
- 4D FWI approaches
- Deep water with different acquisitions
- Elastic experience

BIOGRAPHY

Denes Vigh has an M.S. in Geophysics. He was group leader for Hungarian Exploration Co.(1983-1987), project manager for CGG(1987-1991), supervisor and remote center manager for Schlumberger Geco-Prakla (1991-997), VP of Geophysical Services at Paradigm Geophysical (1997-2001) and VP Operations at STAAG Imaging L.P. (2001-2008). After the WesternGeco acquisition of STAAG Imaging L.P. Denes Vigh joined WesternGeco in 2008 and first managing and later advising the FWI/RTM group within SLB.

ABU DHABI, UAE

FULL WAVEFORM INVERSION: LAND AND SHALLOW WATER CHALLENGES

10-12 OCTOBER 2023



REGISTRATION

SEG MIDDLE EAST BUSINESS OFFICE:

For all registration queries, please contact aklerk@seg.org or call +971 4 371 2710.

REGISTRATION FEE INCLUDES:
COFFEE BREAKS, AND LUNCHES (TUE-THUR)

	NON-MEMBERS	MEMBERS
EARLY BIRD REGISTRATION FEE (Must be registered and paid for by 6 September 2023)	US\$1,640	US\$1,400
FULL REGISTRATION FEE (Begins from 7 September 2023 Onwards)	US\$1,850	US\$1,610
ACADEMIA REGISTRATION FEE		US\$650
STUDENT REGISTRATION FEE	—	US\$250
WORKSHOP AND SEMINAR REGISTRATION FEE	US\$2,100	US\$1,860
SEMINAR ONLY REGISTRATION FEE		US\$300
	UAE VAT (5%)	US\$ _____
	Total Amount (incl. UAE VAT):	US\$ _____

PLEASE FILL IN THE FORM BELOW

SEG/SPE ID# (if currently a member) _____ Dr. Mr. Ms.

First/Given Name _____ Middle Name _____

Last/Family Name _____ Name on Badge _____

Company/Organization _____ Job Title _____

Business Phone _____ Email _____

Mailing Address _____

City & State _____ ZIP/Postal Code _____ Country _____

Address listed: Business Home Are you a student? Yes No

All payments are required in US Dollars (\$) on US Banks only. Payment through PayPal is also available through online registration. From outside the US, you can process payments in your local currency with Flywire.

TO PAY VIA CREDIT CARD OR FOR MORE INFORMATION, PLEASE CONTACT ANNEKE DE KLERK AT AKLERK@SEG.ORG

PLEASE NOTE CREDIT CARD PAYMENTS ARE NOT ACCEPTED VIA EMAIL.

Remit in US Dollars (\$) to:

Society of Exploration Geophysicists
Attn: Accounts Receivable
125 West 15th Street, Suite 100 Tulsa,
Oklahoma, 74119-3801, USA

All major credit cards accepted:

Fax: +1 918 497 5558
Society of Exploration Geophysicists
Attention: Accounts Receivable

Wire transfer:

Wire transfer — in US Dollars (\$) Detailed wire information will be sent upon request.

CANCELLATION POLICY

Written notice received by **6 September** entitles registrants to a full refund of the registration fee minus US\$50 for processing.

No refunds will be issued after **6 September**, substitutions are permissible with written approval by the event organizers.

Notify Anneke de Klerk (aklerk@seg.org) immediately to request a substitution.