



# Special Event : Hydrocarbon Exploration

28-29 June 2022, 14.00 WIB (UTC+7)

Open to Public

Registration : [https://bit.ly/Regist\\_Hydrocarbon2022](https://bit.ly/Regist_Hydrocarbon2022)

Platform :



**Coordinator**

**Dr.rer.nat. Widodo**

*Applied Geophysics and Exploration Research group, ITB  
Division Commite Member Representing the Region of Asia Indonesia*



**Opening Speech**

**Prof.Ir. Ridho Kresna Wattimena, MT., Ph.D. IPU.**

*Dean of Faculty of Mining and Petroleum Engineering, ITB*



**Assoc. Prof. Dr. Ute Weckmann**

*Chair, IAGA Division VI , Electromagnetic Induction in The Earth and Planetary Bodies*

**Moderator**



**Dr. Ir. Agus Laesanpura, MS.**  
*ITB, Indonesia*



**Sevi Maulinadya Prawita, S.T., M.T.**  
*CGG*



**Adhi Widyantoro**  
*Pertamina Hulu Energi*

## Speakers

### Session 1 : 28 June 2022

**Peter M. Duncan, PhD**

*Former President SEG 2003 - 2004 and CEO Microseismic, USA*

*Hydraulic Fracture Monitoring in Unconventional Fields: is microseismic enough or is there a place for EM methods?*



**Prof. Djoko Santoso**

*ITB, Indonesia  
Future Opportunity to Reduce CO2 Emission in Indonesia by CCS/CCUS*

**Dr. Kurt Strack**

*KMS Technologies, USA  
An overview of 4 decades of trying to combine seismic and EM starting at 1981 and where we are going in the future (monitoring and why)*

**Prof. Pantelis Soupios**

*KFUPM, Kingdom of Saudi Arabia  
The fluid monitoring using joint EM and Seismic Methods*

**Prof. Sigit Sukmono**

*ITB, Indonesia  
Seismic deep water hydrocarbon explorations: challenges and potentials*

**Prof. Zhanxiang He**

*Southern University of Science and Technology, China  
Hydrocarbon exploration using EM methods*

**Dr. Dikun Yang**

*Southern University of Science and Technology, China  
Application of EM in geological mapping and hydrocarbon resource exploration*



### Session 2 : 29 June 2022

**Prof. Awali Priyono**

*ITB, Indonesia  
Influence of near-surface conditions on seismic imaging for hydrocarbon exploration*



**Prof. Diqun Li**

*Central South University, China  
Gas and oil exploration using EM methods*



**Dr. Zhijun Du**

*Ocean University of China, China  
Joint EM and seismic methods for hydrocarbon exploration and CO2 monitoring*



**Prof. Liangjun Yan**

*Yangtze University, China  
Hydrocarbon exploration using EM methods*



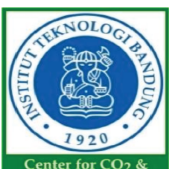
**Ignastius Sonny Winardhie, Ph.D.**

*ITB, Indonesia  
Application of Full Waveform Inversion (FWI) and its integration to Reflection Seismic Data in Oil/Gas Exploration*



**Prof. Zhengyong Ren**

*Central South University, China  
A parallel adaptive finite-element approach for 3D realistic controlled-source electromagnetic problems using hierarchical tetrahedral grids*



Contact: Rheza (WA: 081381588620)

Elis (WA: 082175906892)

Patria (WA: 085232771950)



# Schedule

## Special Event: Joint Electromagnetic (EM) and Seismic Methods for Hydrocarbon Exploration

### 28-29 June 2022

Session 1 : 28 June 2022

Session 2 : 29 June 2022

WIB Time (UTC+7)	Lecture Topic	Lecturer	WIB Time (UTC+7)	Lecture Topic	Lecturer
14.10-14.55	Future Opportunity to Reduce CO2 Emission in Indonesia by CCS/CCUS	<b>Prof. Djoko Santoso</b> <i>ITB, Indonesia</i>	14.10-14.55	Influence of near-surface conditions on seismic imaging for hydrocarbon exploration	<b>Prof. Awali Priyono</b> <i>ITB, Indonesia</i>
15.30-16.15	An overview of 4 decades of trying to combine seismic and EM starting at 1981 and where we are going in the future (monitoring and why)	<b>Dr. Kurt Strack</b> <i>KMS Technologies, USA</i>	15.30-16.15	Gas and oil exploration using EM methods	<b>Prof. Diquan Li</b> <i>Central South University, China</i>
16.20-17.05	The fluid monitoring using joint EM and Seismic Methods	<b>Prof. Pantelis Soupios</b> <i>KFUPM, Kingdom of Saudi Arabia</i>	16.20-17.05	Joint EM and seismic methods for hydrocarbon exploration and CO2 monitoring	<b>Dr. Zhijun Du</b> <i>Ocean University of China, China</i>
17.10-17.55	Hydrocarbon exploration using EM methods	<b>Prof. Zhanxiang He</b> <i>Southern University of Science and Technology, China</i>	17.10-17.55	Hydrocarbon exploration using EM methods	<b>Prof. Liangjun Yan</b> <i>Yangtze University, China</i>
18.30-19.15	Seismic deep water hydrocarbon explorations: challenges and potentials	<b>Prof. Sigit Sukmono</b> <i>ITB, Indonesia</i>	18.30-19.15	Application of Full Waveform Inversion (FWI) and its integration to Reflection Seismic Data in Oil/Gas Exploration	<b>Ignastius Sonny Winardhie, Ph.D.</b> <i>ITB, Indonesia</i>
19.20-20.05	Application of EM in geological mapping and hydrocarbon resource exploration	<b>Dr. Dikun Yang</b> <i>Southern University of Science and Technology, China</i>	19.20-20.05	A parallel adaptive finite-element approach for 3D realistic controlled-source electromagnetic problems using hierarchical tetrahedral grids	<b>Prof. Zhengyong Ren</b> <i>Central South University, China</i>
20.10-20.40	Hydraulic Fracture Monitoring in Unconventional Fields: is microseismic enough or is there a place for EM methods?	<b>Peter M. Duncan, PhD</b> <i>Former President SEG 2003 - 2004 and CEO Microseismic, USA</i>			



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