

Infrasonic Passive Seismic Spectroscopy Workshop Program

Douala
November 26-27 2009

Thursday November 26

- ~ 9:00 – Meeting at Rodeo Office
 - Introduction and Workshop Description

- ~ 9:30 – *Presentation [1]*
 - GeoDynamics Research –The company
 - Passive Seismic Spectroscopy History
 - Publication Studies and University Cooperations
 - Methods

- ~ 10:30 – *Presentation [2]*
 - Low Frequency Passive Seismic Spectroscopy (Applications)
 - Seismic Data Acquisitions
 - Instruments and Quality Control

- ~ 11:30 – *Presentation [3]*
 - Data Processing
 - Hydrocarbon Resonances/Power Density/Energy
 - Mapping and Results

- Break
 - Questions/Discussions/Observations/Ideas

- ~ 14:00 – *Presentation [4]*
 - Physical Basis and Reason of the Oil Resonance phenomena
 - Armonic Oscillator Model
 - Forced/Damped Harmonic Oscillators Model and Energy
 - Peterson Model and Seismic Background Noise/Oceanic Peak
 - Seismic Background Noise as a source of Passive Monitoring
 - Questions/Discussions/Observations/Ideas

- ~ 14:30 – *Presentation [5]*
 - Passive Seismic Spectroscopy – example of Case Studies
 - UAE
 - USA
 - ~~RUSSIA, Siberia~~
 - Mali
 - Nigeria

 - Project under Work – Douala [Cameroon]

Friday November 27

- Acquisition Station – Description
- Kinematics Quanterra Q330 - 24 Bit Delta sigma Recorder
- SM-3KV Seismometer
 - Questions/Discussions/Observations/Ideas

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