

Quantitative Reservoir Characterisation

Teamwork will consist of: Summary/Presentation of learning points **previous day**

Day 1

- 09:00-09:30 1. Biography, 2. Program, 3. 52 Things, 4. How a Geophysicist, 5. Teams
09:30-11:30 6. Geophysical Methods, 7. Seismic Acq, 8. Seismic Proc, 9. Workflow,
10. Seismic for QI
10:30-11:00 11. **Ex: Resolution I**
11:00-11:15 Refreshments
11:15-13:00 12. Rock Physics
13:00-14:00 Lunch
14:00-14:30 13. **Videos: Rock Physics (26:30)**
14:30-15:00 14. Effective Media
15:00-15:15 Refreshments
15:15-16:00 15. Seismic Resolution: Point-Spread or Resolution Functions
16:00-17:00 16. **Ex: Resolution II**
17:00-17:30 Quiz 1

Team a: Preparation Summary of day 1

Day 2

- 09:00-09:30 **Team a: Summary of day 1**
09:30-10:00 1. AVO, 2. AVO Errors (S&B)
10:00-11:00 3. **Demo: Colab AVO Tuning**
11:00-11:15 Refreshments
11:15-13:00 4. **Ex: Excel Effective Media**
13:00-14:00 Lunch
14:00-14:30 5. **Videos: EAGE AVO**
14:30-15:30 6. Effective Media, 7. Anisotropy
15:30-15:45 Refreshments
15:45-17:00 8. **Ex: Excel AVA**
17:00-17:30 Quiz 2

Team b: Preparation Summary of day 2

Day 3

- 09:00-09:30 **Team b: Summary of day 2**
09:30-10:00 1. EI, EEI, EPI, 2. Lambda-Mu-Rho
09:30-11:30 **Ex: Excel AVA (3. ΔR_{PP} , 4. ΔR_{SS})**
10:30-11:00 5. Inhomogeneity & Anisotropy
11:00-11:15 Refreshments
11:15-12:00 6. ML AVA Tutorial I
12:00-13:00 7. **Ex: Excel AVA R_{ps}**
13:00-14:00 Lunch
14:00-15:00 **Videos: 8. EAGE Wave Equation AVO**
15:00-15:30 9. **Ex: Excel V-NMO-azi**
15:30-15:45 Refreshments
15:45-16:15 10. **Ex: Excel AVA VTI HTI**
16:15-17:00 11. **Ex: Excel AVA HTI Ortho**
17:00-17:30 Quiz 3

Team c: Preparation Summary of day 3

Day 4

09:00-09:30	Team c: Summary of day 3
09:30-10:15	1.AVAz Fractures, 2.Machine learning,
10:15-11:00	3. Colab DEM Backus-Reservoir
11:00-11:15	Refreshments
11:15-12:00	4.ML AVO Tutorial II, 5.Inversion
12:00-13:00	6. Ex: Colab AVO Classes
13:00-14:00	Lunch
14:00-14:30	Videos: 7. Inversion vs Machine learning I
14:30-15:30	8. Ex: ML AVA Tutorial II
15:30-15:45	Refreshments
15:45-16:00	9.SOM
16:00-16:30	10. Ex: Colab DEM Carbonate Reservoir
16:30-17:00	11.Supervised, 12. Unsupervised and 13. Semi-Supervised learning
17:00-17:30	Quiz 4
	Team d: Preparation Summary of day 4

Day 5

09:00-09:30	Team d: Summary of day 4
09:30-10:00	1. Large scale scanning for AVA
10:00-11:00	2. Ex: Colab PCA Lith Scaled Features
11:00-11:15	Refreshments
11:15-11:45	3. Frequency-dependent AVO (FAVO)
11:45-13:00	4. Ex: Colab AVO Inversion
13:00-14:00	Lunch
14:00-14:15	5. Video: You ain't seen nothing yet.
14:15-15:00	6. AVA & Well Seismic Profiling
15:00-15:15	Refreshments
15:15-16:15	7. Ex Large Language Model (LLM)
16:15-16:30	Quiz 5