**Monday, 3 October 2016**

18:30 - 19:30 On-site meeting with committee and session chairs

---

**Tuesday, 4 October 2016**

07:30 - 08:25 Registration – Ballroom Foyer

Coffee, tea, juices and morning refreshments available

08:30 - 08:40 Special Address by Saudi Aramco

**SESSION 1** Advances in Multi-Physics Land, Marine & Airborne Acquisition Technologies

Session Chairs: Raffaella Sabatini & Friedrich Roth

08:45 - 09:10 Multi-Component, Full Azimuth 3D CSEM Data Acquisition

Friedrich Roth, EMGS

09:10 - 09:35 Improving Cost-Efficiency of Airborne TEM while Maintaining Vertical Resolution and Depth of Investigation

Flaming Efferso, SkyTEM Surveys

09:35 - 10:00 Airborne Imaging of the Near-Surface: Helitrnm Time Domain Electromagnetics

Reese Van Buren, CGG

10:00 - 10:20 BREAK – 20 min

10:20 - 10:45 Advances in Airborne Gravity Gradiometry Acquisition with the Gedex HD-AGG

Brian Main, GEDEX

10:45 - 11:10 Measuring Subtle Gravity Signals

Mark Cranefield, CGG

11:10 - 11:35 Optimization of Seismic Acquisition through Non-Seismic Data Integration

Max Meju, Petronas

11:35 - 12:20 Moderated Discussion – 45 min

12:20 - 13:30 LUNCH – 1 hr 10 min

**SESSION 2** Advances in Theory of Integrated Geophysical Imaging

Session Chairs: Max Mejía & Daniele Colombo


Max Mejía, Petronas

13:55 - 14:20 Quantitative Integration of Multi-Geophysical Measurements through Cooperative and Simultaneous Joint Inversion

Diego Rivetta, Saudi Aramco

14:20 - 14:45 Joint Inversion of MT and Seismic and Gravity Data with Different Structural Contraints

Dmitry Molodtsov, Saint Petersberg University

14:45 - 15:05 BREAK – 20 min

15:05 - 15:30 Reservoir Characterization through Petrophysical Joint Inversion of Multi-Geophysical Attributes and Measurements

Diego Rivetta, Saudi Aramco

15:30 - 15:55 Geological Consistency from Inversions of Geophysical Data

Stephen Hallinan, CGG

15:55 - 16:15 Moderated Discussion – 1 hr

16:30 - 19:30 ICEBREAKER RECEPTION

---

**Wednesday, 5 October 2016**

**SESSION 3** Case Studies of Velocity Model Building Strategies Integrating EM & Gravity Data with Near-Surface, Subsalt, Sub-Basalt, Thrust-Belt

Session Chairs: Aisha Al-Gharib & Freidrich Roth

08:30 - 08:55 Applications of EM and FTG Data in the Red Sea

Ahmed Alhti, Saudi Aramco

08:55 - 09:20 Quantitative Integration of Multi-Physics Datasets for Improved Surface Modeling

Marco Mannos, Schlumberger GeoSolutions

09:20 - 09:45 Massive Integration of EM, Gravity Gradiometry and Wide Azimuth Seismic for Subsalt Exploration in the Red Sea

Gary McNeice, Saudi Aramco – EXPEC Advanced Research Center

09:45 - 10:05 BREAK – 20 min

10:05 - 10:30 Contribution of Surface and Body Waves for the Near-Surface Characterization by Active and Passive Seismic

Ayal Ben-Moshe, Petronas

10:30 - 11:10 Moderated Discussion – 1 hr

11:30 - 12:55 LUNCH – 1 hr 25 min

**SESSION 4** Case Studies of Integrated Geophysical Exploration for Hydrocarbons in Land & Marine Environments

Session Chairs: Aisha Al-Gharib & Freidrich Roth

12:55 - 13:20 Predictive Analytics for Productivity Estimation

Fabian Gibert, TOTAL E&P Pau

13:20 - 13:45 Exploration of Volcanic Gas Reservoir by Integrated Quantitative Interpretation of MT and Tomography Survey Data

David Alumbaugh, NEOS

13:45 - 14:10 Effective Integration of Bathymetric, Gravity, Magnetic, Seismic and Well Data for Subsalt, Sub-Basalt and Deep-Crustal Mapping in Santos and Campos Basins, Brazil

Max Mejía/Frank Miller, Petronas

14:10 - 14:30 BREAK – 20 min

14:30 - 14:55 New Technology in 3D Gravity Exploration and Applications

Yangfan Qi, CGG

14:55 - 15:20 Using Airborne Gravity and Airborne Gravity Gradiometer Data for Oil and Gas Exploration

Sven Sabateen, CGG

15:20 - 15:45 Near-Surface Characterization for Seismic Exploration Based on Detailed Gravity Data

Jan Mininni

15:45 - 16:15 Moderated Discussion – 1 hr

---

**Thursday, 6 October 2016**

**SESSION 5** Reservoir Characterization & Monitoring from Inversion & Joint Inversion of Seismic & Non-Seismic Methods

Session Chairs: Daniele Colombo & Friedrich Roth

08:30 - 08:55 Keynote: Reservoir Monitoring Applications Using a Multi-Method/Physics Geophysical System

Kurt Strack, KMS Technologies – KJT Enterprises Inc.

08:55 - 09:20 Satellite Radar Data: a Tool for Reservoir Monitoring

Alessandro Ferranti, Tale-Renovans Europa

09:20 - 09:45 Improving Prospect Maturation and Technology Development by Cross-Disciplinary Integration.

Examples from Wisting the Barents Sea

John Reider Granli, OMV Norge

09:45 - 10:05 BREAK – 20 min

10:05 - 10:30 3D Geophysical Reservoir Monitoring Using Borehole Electric Field Measurement

Gary McNeice, Saudi Aramco – EXPEC Advanced Research Center

10:30 - 11:00 Moderated Discussion – 1 hr

11:30 - 12:55 LUNCH – 1 hr 25 min

**SESSION 6** The Impact of Multi-Physics Measurements on the Determination of Petrophysical Properties

Session Chairs: Roger May & Kurt Stack

12:55 - 13:20 Rock Physics Driven Integration of Seismic and Controlled Source Electromagnetic Data

Lucy MacGregor, Rock Solid Images

13:20 - 13:45 Seismic and EM Integration Through Petrophysical Joint Inversion Workflow for Prospect Characterization

Elena Medina, Schlumberger GeoSolutions

13:45 - 14:15 Discussion Moderator – 1 hr

---

**Early Bird Deadline: 1 September 2016**

**REGISTER NOW**

www.seg.org/events/2016/multi-physics

---

**Gold Sponsor**

www.seg.org/events/2016/multi-physics