



# 10<sup>th</sup> Meeting of the Saudi Society for Geoscience

“Geosciences for Sustainable Development”

15-17 April, 2013

KFUPM Campus, Dhahran, Saudi Arabia



## Poster Program

**DAY- 1**

**Monday, April 15, 2013**

**Chairman: Q. Sohail & F. Anifowose**

Reservoir characteristics and hydrocarbon potentiality of the Lower Qishn Clastic Member, Masila Basin, Yemen (SSG10-167)

**Nabil M. A. Alareeq\***, Awad A. Omran

Relationship between gas (CO<sub>2</sub>) traps and structural styles in the Al Jamouse Area, Melut Basin, Sudan (SSG10-052)

**Huzaifa M. Elbushra\***

Fully integrated characterization of naturally fractured reservoir (SSG10-164)

**Marwan M. Althagafy\***

Contribution of the use of GIS and multi-temporal satellite imagery to study the risk of flooding and desertification: Case study in Algeria (SSG10-133)

**M. Kacimi\***, O. Kolli

Morphometric relation to the geological structures of Haro river drainage basin, Northern Pakistan (SSG10-150)

**Muhammad Sanaullah\*** (University of the Punjab), Adeel Ahmad

An integrated geophysical investigation of the Offshore Indus Basin, Pakistan (SSG10-070)

**Sohail I. Qazi\***, SanLinn I. Kaka

Groundwater demand projection in Elbashiry Basin, Central Sudan (SSG10-165)

**K.M. Kheiralla\***, N.E. Mohamed, M.M. Mergani, M.Y. Abdelgalil

Integrated formation evaluation of Quaternary aquifer in Assiut Governorate, Nile Valley, Egypt, based on vertical resistivity soundings and well logging analysis (SSG10-037)

**Awad A. Omran\***, Ahmed M. Seifelnasr, Hassan A. Abdel-Hak, Waleed S. S. El Tahawy

Using multivariate statistical analyses to evaluate groundwater contamination in the northwestern part of Saudi Arabia (SSG10-044)

**Taisser Zumlot\***, Awni Batayneh, Yousef Nazal, Habes Ghrefat, Haider Zaman, Saad Mogren, Eslam Elawadi, Abdalaziz Laboun, Saleh Qaisy

Assessment of metal contamination and multivariate statistical analysis of the soils along the Gulf of Aqaba, Saudi Arabia (SSG10-068)

**Habes Ghrefat\***, Haider Zaman, Awni Batayneh, Yousef Nazzal, Saad Mogren, Eslam Elawad

Review on environmental magnetism: Applications on geology and heavy metals pollution (SSG10-111)

**Boualem Bayou\***, Lynda Attouche

Eyes in the sky: Assessing the Copper-Gold reserves through remote sensing – A case study (SSG10-004)

**Muhammad Arshad Khan\***

GIS based navigation and tracking system for Rescue 1122 (Punjab Emergency Services) (SSG10-147)

**Faisal Bilal\***, Usman Zafar, Kashif Hafeez, Humayoun Ashraf

Design and evaluation of GIS based real time municipality management system (RTMMS) (SSG10-140)

**Sajid Rashid Ahmad\***, Sana Khushi, Atif But

Characterizing groundwater resources using GIS – A Case Study in Upper Egypt (SSG10-039)

**Awad A. Omran\***

Integration of remote sensing, GIS and runoff modeling for estimating flash flood of ungauged catchments: Case study Wadi Al-Burdi, Jizan, Saudi Arabia (SSG10-185)

**Mohamed El Alfy\***, Abdel Aziz Al-Bassam



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Molecular level fabric study of expansive clays (SSG10-102)

**H. R. Ahmed\***, A.U. Dogan, S.N. Abduljawwad

The effect of global averaging and zonal depth matching methods on the performance of artificial intelligence techniques in permeability prediction (SSG10-032)

**Fatai Anifowose\***, Abdulazeez Abdulraheem, Abdullatif Al-Shuhail, Denis P. Schmitt

Differential capacity fractal dimension and water saturation fractal dimension as parameters for reservoir characterization: Shajara Formation of the Permo-Carboniferous Unayzah Group as a case study (SSG10-001)

**K. E. Al-Khidir\***, M. S. Benzagouta, Wimpy, A. A. Al-Qurishi, A. A. Al-Laboun

Interpretation of Bouguer long-wavelength gravity anomalies by means of 2D density modeling (SSG10-034)

**A. H. A. Radwan\***, M. Bielik; S. M. Mahmoud; A. A. Tealeb; M. A. alla Trakhan

An integrated software solution for modeling, planning and simulation of seismic surveys, aimed at high performance (SSG10-137)

**Jonathan Grimsdale\***, Thierry Brizard



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**DAY- 2: Tuesday, April 16, 2013**

**Chairman: A. Papoola & M. Yousif**

Seismic refraction and resistivity imaging for assessment of groundwater seepage under a dam site, southwest of Saudi Arabia (SSG10-059)

**Sayed S. R. Moustafa\***, Elkhedr H. Ibrahim, Eslam Elawadi, Mohamed Metwaly, Naser Al Agami

A close-up view of cavities and its influence on structures foundation in Central Saudi Arabia (SSG10-043)

**Fouzan Al Fouzan\***, Muawia A Dafalla

Developing a methodology to evaluate the accuracy of Ground LiDAR monitoring of change (SSG10-008)

**Mohammed S. Alfarhan\***, Lionel White, Jarvis Cline, John Oldow, Carlos Aiken

Array-free processing: Challenges of an ultra high-density seismic survey (SSG10-135)

**David Le Meur\***, André Lévêque, Philippe Herrmann

Utilizing subsurface soil properties and site conditions in an innovative irrigation system (SSG10-046)

**Loni Allafouza Oumar\***, Mansour Al hemaimidi, Muawia A. Dafalla, Mosleh Al Shamrani

Efficiency of seismic attributes in detecting near-surface cavities (SSG10-065)

**Hashim Almalki\***, Khyzer Munir

Basement topography and subsurface tectonic pattern as interpreted from the aeromagnetic data of the Central Eastern Desert, Egypt (SSG10-075)

**A.A.Bakheit\***, E.M Abd El-all, I.A El- Hemaly, A.M Hammad

Seismic hazard and its relationship to the energy release of earthquakes in the northern part of the Red Sea Area (SSG10-056)

**Sayed Abdallah Mohamed Dahy\***

Stability of Aswan Region, Egypt detected from seismological and geodetic data (SSG10-054)

**G.S Hassan\***, S.M. Abdel- Monem

Evaluation of technical and engineering properties of Bentonitic mudstones for drilling-mud application. Umm Ali Area, Shendi Formation, Northern Sudan (SSG10-100)

**Indira Abdel Rahman Mahmoud\***, Osman Mahmoud Abdullatif

Geohazard possible scenario from Indonesia unconventional natural gas hydrate production: Case study (SSG10-152)

**Ardian Nengkoda Supranto\***, Imam Prasetyo, Suryo Purwono, Sugeng Sapto Suryono, Hendra Amijaya

Land subsidence hazards assessment using integrated geophysical techniques: International case studies (SSG10-023)

**Mohamed Metwaly\***, Eslam Elawadi

Blast safely near Tourah's caves by using the contour map of attenuation rate, Cairo, Egypt (SSG10-018)

**M. Khaled Abdelaziz\***, K. Abdel Rahman, E. Elbagy

Evaluation of the site effects at the proposed Tushka new city site, South Egypt (SSG10-057)

**Abdelnasser Mohamed\***, R. Fat-Helbary, H. El-Khasahab, K. El-Faragawy

Geotechnical characteristics for preliminary seismic design in the southern part of Cairo City, Egypt (SSG10-038)

**Awad A. Omran\***, Mostafa S. Toni, Abuo El-Ela A. Mohamed, Elsayed A. Fergany, Friedemann Wenzel

Shallow site structure and geotechnical characteristics for Tel El-Amarna Area, Middle Egypt (SSG10-055)

**Mostafa Toni\***, Ahmed Hosny, Mohsen M.Attia, Awad Hassoup, Amr Elshrkawy



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**DAY- 3**

**Wednesday, April 17, 2013**

**Chairman: E. Setoyama & M. Benaafi**

Strain analysis and deformation in the Tunouma Area, Arabian Shield, Saudi Arabia (SSG10-011)

**Osama M.K. Kassem\***

Active deformation of the Arabian plate and its margins (SSG10-127)

**Abdullah Arrajehi\***, Abdullah al-Humaizi, Thamer, al-Otaibi, Robert King, Michael Floyd, Simon McClusky, Robert Reilinger

Crustal architecture and tectono-magmatic evolution of the Western Offshore of India: Implications on deepwater petroleum exploration (SSG10-030)

**Radhakrishna Munukutla\***, R. Fainstein, R. Kalra, G. S. Rao

Gulf of Aqaba rift-related faults in the Gulf of Suez rift: the Durba-Araba fault, Sinai Peninsula, Egypt (SSG10-151)

**Mamdouh M. Abdeen\***, Ashraf S. Abdelmaksoud

Structures in sedimentary cover above a salt body – Case study from Eastern Saudi Arabia (SSG10-182)

**Fahmi Mohammed\***, Plesch Andreas, Shaw John, Cole John

Structural interpretation of the Ifal Basin, Northwestern Saudi Arabia, from aeromagnetic data: Hydrogeological and environmental implications (SSG10-020)

**Eslam Elawadi\***, Haider Zaman, Awni Batayneh, Saad Mogren, Abdalaziz Laboun, Habes Ghrefat, Taisser Zumlot

Characterization of the Upper Jurassic Arab D Reservoir using outcrop data from Central Saudi Arabia (SSG10-125)

**Hassan Eltom\***, Osman Abdullatif, Mohammed Makkawi, Khalid Al-Ramadan

Stratigraphy of the Middle Eocene – Early Oligocene successions in Western and Eastern Jordan (SSG10-033)

**Sherif Farouk\***, Fayez Ahmad, Ahmad Smadi

Regional high-resolution sequence stratigraphic framework of the Arab D Reservoir, Eastern Province, Saudi Arabia (SSG10-180)

**Mahmoud Alnazghah\***, Yousef Mousa, Abdullah Mojel

Mixed carbonate-siliciclastic sequence development on a distal foreland during Miocene glaciation, Eastern Saudi Arabia (SSG10-179)

**F. Alkhaldi\***, J. Fred Read, Aus Tawil

Distribution of stable heavy minerals in Nutaysh Member of Burqan Formation, Midyan Basin, NW Saudi Arabia (SSG10-093)

**M. Benaafi\***, H. Alfifi

Biostratigraphy and morphogroup analysis of Upper Cretaceous–Paleogene foraminifera from Indian Harbour M-52 well, the Labrador Sea (SSG10-162)

**Eiichi Setoyama\***, Michael A. Kaminski, Jarosław Tyszk

Late Jurassic hypersaline-associated microfossils of Saudi Arabia and their stratigraphic significance (SSG10-121)

**G. Wyn Hughes\***, G. Al-Eid

Cenomanian-Turonian microfossils of Saudi Arabia and the biostratigraphic and palaeoenvironmental significance of microcrinoids and calcareous dinocysts (SSG10-119)

**Wyn Hughes\***

Micropalaeontology and palaeoenvironments of the Wadi Waqb Member carbonates, Onshore Northern Saudi Arabian Red Sea (SSG10-124)

**G. Wyn Hughes\***



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Macrobiostratigraphy and paleoecology of the Lower Callovian – Lower Kimmeridgian succession in near Riyadh Area, Central Saudi Arabia (SSG10-019)

**Abdel Galil Hewaidy\***, Sherif Farouk, Khaled EL-Kahtany

Biosteering the Khuff reservoirs in Saudi Arabia (SSG10-118)

**G.W.Hughes\***, S. Rashid, A. Dhubeeb

Bering sea deep water ventilation over the last 2 Ma, evidence from foraminiferal assemblages and stable isotopes (SSG10-156)

**Sev Kender\***, Christina Ravelo, Hirofumi Asahi Julia Becker, Ian Hall, Melanie Leng, Mike Kaminski, Taufik Radi, Ivano Aiello

Petrological characteristics of carbonate orthopyroxenites from the Allaqi-Heiani ophiolite, South Eastern Desert, Egypt: An implication of CO<sub>2</sub>-metasomatism (A natural carbon sequestration) (SSG10-036)

**Hisham A. Gahlan\***, Shoji Arai

Integrated Biogeochemical Characterization of the Rus Formation, Dammam, Saudi Arabia (SSG10-196)

**A.U. Dogan\***, M.M. Hariri, M.Dogan, K. Ramadan, M.A. Kaminski, E. Setoyamo, H. Matysik, H. Eltom, A. Quwazani, A. Hakami, H.R. Ahmed

Three-dimensional geostatistical and synthetic forward seismic and impedance model of the Upper Jurassic Arab-D Reservoir: Outcrop approach, Central Saudi Arabia (SSG10-126)

**Hassan Eltom\***, Mohammed Makkawi, Osman Abdullatif

Geological model of dam and Hofuf Formations (Miocene-Pliocene): An integrated approach utilizing sequential and chemostratigraphy, Lidar and gamma ray, Eastern Saudi Arabia. (SSG10-113)

**Osman Abdullatif** \*, Mohammad Yassin, Adnan Al-Mubarak, Asaad Abdel Razig

IGBA: The international database of igneous rocks (SSG10-181)

**Ali Al-Mishwat\***

Establishment of new accredited Bachelor program in geology at Taibah University, Al-Madinah Al-Munawarah (SSG10-077)

**Abdullah O. Bamousa\***, Tayel El-Hassan

Academia-industry collaboration in development of a new undergraduate geophysics course at King Fahd University of Petroleum & Minerals (SSG10-138)

**Sanlinn I. Kaka\***, Bashir Durrani, Abdulaziz Al-Shaibani