



Prof M.S Benzagouta

**PERSONAL DATA:**

Name: Mohammed Said Benzagouta

Rank: Professor

Former Address: Petroleum and Natural Gas Engineering Department, King  
Saud University, P.O. Box 800, Riyadh 11421, Saudi Arabia

Actual Address: Geology Department, University of OumBouaghi Larbi Ben Mhidi Algeria, 04000

e-mail address Benzagouta53@gmail.com

**EDUCATION:**

B.Sc. (Algerian Institute of Petroleum), PhD (United Kingdom)

Speaks and Writes Currently English French and Arabic

**Academic and Industrial Record**

Member of Staff of the Algerian Oil Company SONATRACH Exploration District (1981-83),

University of Constantine Algeria: 1983-85

University of Newcastle upon Tyne (UK): 1986-92 for PhD graduation in junction with British  
Petroleum (BP Aberdeen),

**Title**

**Petrophysical Characteristics Control on the Buchan Oilfield (Northern North Sea).**

University (Faculty of Eng-Jado) -Libya: 1994-96 as member of staff

University of Constantine Algeria-1992-94 and 1996-05

University of King Saud Petroleum and Gas Eng Department (2005-20013)

20013-1 Actuel university of OumBouaghi Algeria and

CONSULTING-Research: Supervised and supervising PhD and Bsc Students in the Field of Petroleum  
Exploration and reservoir characterization (in junction with the Algerian National Oil Company).

Expert and Reviewer: for Elsevier and having reviewed many books in the Field of Petroleum and Gas Exploration and Production. Reviewer: for AJGS (Arabian Journal for Geosciences, SpringerVerlag)

**Principal Investigator for the Research Team of the:** Sheikh Mohammed Bin Hussein Al Amoudi Research Chair on Enhanced Oil Recovery at KSU.

## **TEACHING COURSES**

(Formation Evaluation and Well Logging, Reservoir Characterization, Petroleum Geology, Sedimentology (Sedimentology-Depositional Environment and Diagenetic Effects for Carbonate and Detrital with logging contribution towards facies analysis, sequential analysis and electrofacies classification, Eustatisme determination,)

Sedimentary Petrography, Geophysical methods, with Integrated data **analysis** using facies **electrofacies** and seismic attribute for the reservoir characterization).

Apercu on conventional and unconventional reservoirs with focus on shale gas and EOR methods and application.

**Particular Courses from Basin Analysis (Fundamental) to Porous Medium (Applied) for PhD Students, with an over view on divers Seismic and Resistivity (Tomography) and Logging Methods: Basin Analysis, Reservoir Determination and Reserve Calculation Synthesis**

Students Supervision on Capstone Projects

### **Research activities**

Reaching more than 60 articles in professional journals, conferences and symposia proceedings . In addition various research projects were led. Activation was essentially in the field of reservoir: characterisation, Conventional and Unconventional. As part of the conducted research is included the field of Geochemistry. Involvement of petrophysics, fluid properties and Enhanced Oil Recovery which constitute also part of the led research packages. The carried out investigations conducted to a range of many Mphil achieved thesis including a PhD thesis in addition to published articles and conferences:

### **Main Achieved Researches:**

#### **Conferences and symposia**

**M.S.Benzagouta** et al., Geology and Petroleum potential in the Timgad Basin, Algeria” Second International Conference on the’ Geologie du Grand Constantinois et des ConfinsAlgero-Tunisiens, Constantine, 9, 10 and 11th of May, 2005.

**Benzagouta M.S** and M. Amro, Investigation on Crude Oil Migration on Surface and Subsurface Environment: Impact and Solution, Asian Pacific Health, Safety, Security and Environment, SPE 121768-pp Indonesia, 2007.

**M.S Benzagouta.** And M.Amro, Horizontal and Multilateral Drilling Technology: Contribution towards production improvements of naturally fractured reservoir (Case study, Algeria), SPE 1109, May, 2007.

**Benzagouta M.S.** and M.Amro. Applicability of Casing While Drilling; Approach for Arabian Oil Fields, SAUDI ARAMCO DRILLING, Khobar Dec-2007, [www.speksa.org/symposium](http://www.speksa.org/symposium)

**Benzagouta M.S.** and H. Dmour, Sedimentological, Textural and Diagenetic Impact on Reservoir Sandstone Petrophysical characteristics, (The Fifth Jordanian International Mining Conference), 2007

Amro M and **Benzagouta M.S.** and Mofazzal Hussein, Experimental and Numerical Study on Production Performance: Case of Horizontal and Lateral Wells, SPE KSA, May 2009..

**M.S.Benzagouta** and M. Amro, Key Note Speakers on Reservoir Characteristics and their Contribution towards EOR Application, "Optimizing EOR Strategy ACI (Active Communication International, Europe L.T.D), London 11-12 of March, 2009.

**Benzagouta M.S.**, M. Amro, Wimpy Karnanda and Alsubaie A, Reservoir Heterogeneity and Quality Prediction, Eurogeo Conference 2009, [www.eurogeo2009.bayern.de](http://www.eurogeo2009.bayern.de)

M.AmroM, and **Benzagouta M.S.**, Nanotechnology Applications in Petroleum Upstream Operations. The International Conference for Nanotechnology Industries, King Abdullah Institute for Nanotechnology (KAIN) (KSU), April, 2009.

**M.S Benzagouta** and M Amro, Al Amoudi EOR Research Chair, Workshop Presentation, Held In Dahrhan (Aramco), January 2009.

M. Amro and **Benzagouta M.S.** 4th Annual Global Improved Oil Recovery Interactive Technology Workshop, Marrakech, 31 May -2 June 2010

M. M. Amro\*, Malik Chahboun\*\*, **M. S. Benzagouta**\*\*\*, \*TU Bergakademie Freiberg, Germany  
\*\*King Saud University, Al Amoudi Chair, Department of Petroleum and Natural Gas Eng. \*\*Steffen Schmitz, DPI-Gas Technology-Freiberg-, Selection of Efficient EOR Methods Based on Eclipse Simulation. The 2nd Saudi Meeting on Oil and Gas Exploration and Production Technologies OGEP 2010 KFUPM Campus in Dhahran, Saudi Arabia December 18-20, 2010

**Benzagouta, M S** and Turner, B. 1992."Heirachial analysis of reservoir quality in the Buchan Oil-Field". Braided rivers: form, process and economic applications, 1992, London, 1992

**M.S. Benzagouta** and B.R Turner, University of Newcastle Upon Tyne "Reservoir characteristics ; Prediction from Geochemical Analysis", , , Fifth Conference on Geochemistry, Alexandria, Egypt, September, 2001

**M.S.Benzagouta** et al., "Geology and Petroleum potential in the Timgad Basin, Algeria" Second International Conference on the' Geologie du Grand Constantinois des Confinsalgero-tunisiens, Constantine, 9, 10 and 11<sup>th</sup> of May, 2005.

Manel Cheriet and **M.S.Benzagouta**, "Impact of Geological Formations on Building Structures: Case of Tellienne Formation (North East Algeria)", International Tethys Conference, Cairo Egypt, 2005.

Cheriet.M, **M.S Benzagouta**.and BRINIS.N 2005, "Caractérisation lithologique à base de mesures de K: représentation graphique (Cas du site de Beni - Haroun)", International Conference on Petroleum Exploration SE of Algeria, 2004

**M.S Benzagouta** and M.Amro, "Horizontal and Multilateral Drilling Technology: Contribution towards production improvements of naturally fractured reservoir (Case study, Algeria)", SPE 1109, May, 2007.

**M.S Benzagouta**. andM.Amro. "Applicability of Casing While Drilling; Approach for Arabian Oil Fields, SAUDI ARAMCO DRILLING, Khobar Dec- 2007, [www.speksa.org/symposium](http://www.speksa.org/symposium)

**M.S Benzagouta**. and H. Dmour, Sedimentological, Textural and Diagenetic Impact on Reservoir Sandstone Petrophysical characteristics, (The Fifth Jordanian International Mining Conference, 2007 .

**M.S Benzagouta**. and M. Amro, Pressure Temperature Effect on Petrophysical Characteristics: Carbonate Reservoir Case, SPE KSA, May 2009 (Dahran).

Amro M, **M.S Benzagouta** and Mofazzal Hussein, Experimental and Numerical Study on Production Performance: Case of Horizontal and Lateral Wells, SPE KSA, May 2009.

**M.S Benzagouta** and M. Amro, Investigation on Crude Oil Migration on Surface and Subsurface Environment: Impact and Solution, Asian Pacific Health, Safety, Security and Environment, SPE 121768-pp Indonesia.

**M.S Benzagouta** and M. Amro Key Note Speakers on Reservoir Characteristics and their Contribution towards EOR Application, "Optimizing EOR Strategy ACI (Active Communication International, Europe L.T.D), London 11-12 of March, 2009.

**M.S Benzagouta**, M. Amro, Wimpy Karnanda and Alsubaie A, Reservoir Heterogeneity and Quality Prediction, Eurogeo 2009, [www.eurogeo2009.bayern.de](http://www.eurogeo2009.bayern.de)

MamroM, and **Benzagouta M.S**, Nanotechnology Applications in Petroleum Upstream Operations. The International Conference for Nanotechnology Industries, King Abdullah Institute for Nanotechnology (KAIN), April, 2009.

**M.S Benzagouta** and M Amro, Al Amoudi EOR Research Chair, Workshop Presentation, Held In Dahran (Aramco), January 2009.

M. Amro and **Benzagouta M.S**. 4th Annual Global Improved Oil Recovery Interactive Technology Workshop, Marrakech, 31 May - 2 June 2010

M. M. Amro\*, Malik Chahboun\*\*, **M. S. Benzagouta**\*\*\*, \*TU Bergakademie Freiberg, Germany  
\*\*King Saud University, Al Amoudi Chair, Department of Petroleum and Natural Gas Eng. \*\*Steffen Schmitz, DPI-Gas Technology- Freiberg- , Selection of Efficient EOR Methods Based on Eclipse Simulation.The 2<sup>nd</sup> Saudi Meeting on Oil and Gas Exploration and Production Technologies OGEP 2010 KFUPM Campus in Dhahran, Saudi Arabia December 18-20, 2010

**M.S Benzagouta** et al., Reservoir Characteristics Determination by the Use of the Coupled M.I.C.P and S.E.M ASET – ICNFA, Montreal, August, 7-9 2012 Nanotechnology : Fundamentals and Applications Montreal Canada.

**M.S Benzagouta** et al., Investigation on Crude Oil Migration on Surface and Subsurface Environment: Impacts and Solutions, Arabian Journal of Geosciences, 2011 (ISI).www.springerlink.com

Mabkhot S Bin-Dahbag, Abdulrahman A Al Quraishi, **Mohammed S Benzagouta**, Mustafa M Kinawy, Inas M Al Nashef and Emad Al Mushaegeh Experimental Study of Use of Ionic Liquids in Enhanced Oil Recovery, Petroleum & Environmental Biotechnology, J Pet Environ Biotechnol 2014, 4:6 <http://dx.doi.org/10.4172/2157-7463.1000165> J Pet Environ Biotechnol Volume 4 • Issue 6 • 1000164 ISSN: 2157-7463 JPEB, Conference and Proceedings - OMICS Group, San Antonio USA

<http://omicsonline.org/ArchiveJPEB/petrochemistry-chemical-engineering-2013-proceedings>.

**M.S Benzagouta**, Surfactants and other factors input for the control of the reservoir interfacial tension (IFT) Petro Chemistry-2014- OMICS Group, Las Vegas USA <http://omicsgroup.com/petrochemistry-chemical-engineering-conference-2014/Las Vegas, USA>

**M.S Benzagouta**, Aoun Monera, Investigation on Expansive Soils and Impact on Building Construction: Case Study from Algeria (El Kouif City-Tebessa)” 3<sup>rd</sup> International Conference on Emerging Trends in Scientific Research, 25-26 April, 2015 Kuala Lumpur, Malaysia.

**M.S Benzagouta** and Mazouz E, Investigation on petrophysical characteristics and heterogeneity control: Case of some Algerian reservoirs-Sahara Plateforme 3<sup>rd</sup> International Conference on Emerging Trends in Scientific Research, 25-26 April, 2015 Kuala Lumpur, Malaysia.

Benzagouta MS (*Keynote Speaker*), Unconventional Reservoir : From Exploration to Production : The New Energetic Challenge at Which Price 3eme colloque International sur la Geologie du Sahara 9-10-12-2015

Achi N et Benzagouta MS Expertise sur les proportions et Qualites des Argiles : Consequences sur le Reservoir et Ecoulement, Cas d Un Systeme Polyphasique, 3eme colloque International sur la Geologie sur la Geologie du Sahara, 9-10-12-2015 (**Expertise on clay clay fraction and type : quality and quantity, impact on porous medium with a polyphasic system**).

MS Benzagouta\* and Mabkhoot Mabkhot Salama Bin Dahbag\*\* Ionic Liquids (ILs) as potential and efficiency on enhanced oil recovery (EOR): A screening process on IFT changes, 11<sup>th</sup> Technical and Scientific Meeting held by Sonatrach (National Oil Company), Oran, Algeria, April, 2018

## **Publications**

**M.S Benzagouta** and MR Lee, New evidence for the origin of distinctive quartz overgrowth, Proceedings of the Yorkshire Geological Society 48:44, 409-414, Yorkshire Geological Society, 1991

**M.S Benzagouta** et al., 1996, Impact de la décharge publique de la Chiffa (Blida) sur la qualité des eaux souterraines, Journal de l'Eau, V15, 1996

**M.S.Benzagouta** et al., Reservoir heterogeneities, in fracturing Fluvial reservoirs of the Buchan Oilfield (Northern North Sea), Oil and Gas Science and Technology-Rev. IFP (French Institute for Petroleum)(**ISI**). 2001, Vol, 56 N°4, pp, 327-338.

**M.S Benzagouta**, and M. Amro, Fracture Study suggests horizontal Drilling will improve Algerian oil field production, Oil and Gas Journal(**ISI**), Feb, 26, 2007, pp 41-48

Amro M and **M.S. Benzagouta**, Effect of Pressure and Temperature on Petrophysical Characteristics in the Case of Carbonate Reservoirs, Oil Gas European Magazine 2/2009(**ISI**), 74-78

**M.S Benzagouta** and M. Amro New Approach for Reservoir Assessment using Geochemical Analysis: Case Study, Journal of Petroleum Science and Engineering, 68 (October, 2009), 171-179 (**ISI**), journal homepage: [www.elsevier.com/locate/petrol](http://www.elsevier.com/locate/petrol)

Amro M, **M.S Benzagouta** and Wimpy Karnanda, Investigation of Crude Oil Penetration Depth into Soil, accepted for publication on 20th of August, 2011, Arabian Journal of Geosciences(**ISI**).

K. E. Al-Khidir, A. A. Al-Laboun, A. A. AlQuraishi, and **M. S. Benzagouta**, King Saud University, Saudi Arabia Reservoirs Heterogeneity Characterization of the Shajara Member: Permo-Carboniferous Unayzah Formation. The 2nd Saudi Meeting on Oil and Gas Exploration and Production Technologies OGEP 2010 KFUPM Dhahran, Saudi Arabia December 18-20, 2010

**M.S Benzagouta**, K. E. Al-Khidir • A. A. Al-Quraishi • and A. A. Al-Laboun, Bimodal pore size behaviour of the Shajara Formation Reservoirs, of the Permo-Carboniferous Unayzah Group, Saudi ArabiJou Petrol Explor Prod Technol DOI 10.1007/s13202-011-0007-5• Original Paper Exploration Geology

**M.S. Benzagouta**, The use of Polar angle, polar arm and other physical attributes in rock characterization Elsevier, Journal of King Saud University - Engineering Sciences. Available online 24 June 2013 <http://dx.doi.org/10.1016/j.jksues.2013.06.002>. Copyright © 2013 Production and hosting by Elsevier B.V.

**M.S.Benzagouta** et al., Reservoir heterogeneities, in fracturing Fluvial reservoirs of the Buchan Oilfield (Northern North Sea), Oil and Gas Science and Technology-Rev. IFP (French Institute for Petroleum).2001, Vol, 56 N°4, pp, 327-338. (**ISI**)

**M.S Benzagouta** and M. Amro, Fracture Study suggests horizontal Drilling will improve Algerian oil field production, Oil and Gas Journal, Feb, 26, 2007, pp 41-48 (ISI)

Amro M and **M.S. Benzagouta** Effect of Pressure and Temperature on Petrophysical Characteristics in the Case of Carbonate Reservoirs, Oil Gas European Magazine 2/2009, 74-78 (ISI)

**M.S. Benzagouta** and M. Amro New Approach for Reservoir Assessment using Geochemical Analysis: Case Study, Journal of Petroleum Science and Engineering, 68 (October, 2009) (ISI), 171-179, journal homepage: [www.elsevier.com/locate/petrol](http://www.elsevier.com/locate/petrol)

**M S Benzagouta** and M Amro, Effect of Temperature, Pressure, Salinity and Surfactant Concentration AJGS: ISSN 1866-7511 Volume 6 Number 3 Arab J Geosci (2013) 6:873-880 DOI 10.1007/s12517-011-0392-6 [www.springerlink.com](http://www.springerlink.com) (ISI)

**M.S Benzagouta** et al., Investigation on Crude Oil Migration on Surface and Subsurface Environment: Impacts and Solutions, Arabian Journal of Geosciences, 2011 (ISI). [www.springerlink.com](http://www.springerlink.com)

**M.S. Benzagouta**, Reservoir Characterization: Evaluation for the Channel deposits sequence-Upper part using scanning electron microscope and mercury injection (M.I.C.P): case of tight reservoirs (North Sea) Journal of King Saud University – Engineering Sciences (2012) [www.ksu.edu.sawww.sciencedirect.com](http://www.ksu.edu.sawww.sciencedirect.com)

K.E. Al-Khidir, **M.S. Benzagouta**, A.A. Al-Qurishi & A.A. Al-Laboun Characterisation of heterogeneity of the Shajara Reservoirs of the Shajara Formation of the Permo-Carboniferous Unayzah Group. Arabian Journal of Geosciences ISSN 1866-7511 Arab J Geosci DOI 10.1007/s12517-012-0656-9 [www.springerlink.com](http://www.springerlink.com)

K.E. Al-Khidir, **M.S. Benzagouta**, A.A. Al-Qurishi & A.A. Al-Laboun, Bi-modal Pore Size Behaviour of the Shajara Formation Reservoirs of the Permo-Carboniferous Unayzah Group Saudi Arabia. J. Petrol. Exploration Production Technology (2011) 1: 1-9, DOI 10.1007/s13202-011-0007-5 [www.magazinedown.com/Journal-of-Petrology](http://www.magazinedown.com/Journal-of-Petrology)

**Benzagouta M.S.**, "Investigation on the Impact of Rock Physical Properties on Permeability Variation: Case Study for the Reservoir Heterogeneity Development." "Nafta" .Regards Technical editor B. Jambrosic, March 2013

**M.S. Benzagouta**, The use of Polar angle, polar arm and other physical attributes in rock characterization Elsevier, Journal of King Saud University - Engineering Sciences. Available online 24 June 2013 <http://dx.doi.org/10.1016/j.jksues.2013.06.002>. Copyright © 2013 Production and hosting by Elsevier B.V.

K Alkhidiri, **M S Benzagouta**, A Al – Qurishi, A Al – Laboun, Integrated Petrophysical Parameters and Petrographic Analysis Characterizing Khartam Reservoirs of the Permo-Triassic Khuff Formation, Saudi Arabia, International journal of Engineering Research and Application, ISSN 2248 9622 V 4 issue 7 version 4 July 2014 pp 195 - 203

Mabkhot Bin Dahbag • AbdulrahmanAlQuraishi • **Mohammed S Benzagouta** Efficiency of ionic liquids for chemical enhanced oil recovery J Petrol Explor Prod Technol DOI 10.1007/s13202-014-0147-5 Received: 14 July 2014 / Accepted: 17 November 2014

**Mohammed M S Benzagouta**, Inas Muen AlNashef, Wimpy Karnanda, Khalid Al-Khidir, 2013, **Ionic liquids as novel surfactants for potential use in enhanced oil recovery** Korean Journal of Chemical Engineering, 2014, Volume 30, Issue 11, pp 2108-2117 (ISI)

**M S Benzagouta and Aoun M**, *Soil Characteristics, Swelling and agressivity, Impact on somesite investigation: Cas of El Kouif area (Tebessa, Algeria)*

Caractéristiques des sols gonflants et agressifs et leurs impacts sur les constructions : Cas de la Ville d ElKouifTébessa (Algérie), **Bulletin de l'Agence du Service geologique de l'Algérie**, **accepted for Volume 27, N° 1 , Janvier, 2016**

Cheriet M and Benzagouta MS Contrôle des Caracteristiques Petrophysiques des Reservoirs Carbonatees : Cas du Coniacien-Santonien(SE Constantinois) REVUE:SCIENCE & TECHNOLOGIE (Univ de Constantine) N°43, Juin - (2016) . pp.27-40 Recu le 21/01/2015 Acceptee Le 22/06/2016

M.S Benzagouta\* Belhouchet Houssam\*\* N. Achi\*\*\* M. Amro\*\*\*Celle, 5./6. April 2017  
Rock Typing: Reservoir Determination from rock - fluid interaction and dynamic behavior : Case Study from an Algerian Oil Field Reservoir DGMK/ÖGEW-Frühjahrstagung, Fachbereich Aufsuchung und Gewinnung

\*Université Larbi Ben M'hidi, OEB, \*\*National Oil Company (SH), \*\*\* Laboratoire des Travaux publics de l'Est Constantine, \*\*\*\*TU Bergakademie Freiberg\*\*\*\*

### **Joint Projects @ Petroleum Natural Gas Eng Department (PNGE)**

Principal Investigator: Project on Reservoir Heterogeneities (21/427), Funded by Saudi Arabian Basic Industries Corporation, SABIC SABIC, KSA (2006-2007) (achieved)

Investigator of a project on relative permeability on tight reservoir sandstone (16/427) funded by the University of King Saud (2006-2007) Research CenterFaculty of Eng King Saud University (achieved)

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Investigator: Project on Investigation on Toxic Fluid Migration on Surface and Subsurface Environment: Impacts and Solutions, (25/428) -Funded by Saudi Arabian Basic Industries Corporation, SABIC, 2008 (achieved)

Investigator on Thermodynamic effect on petrophysical Characteristics, Funded by the Research Centre Faculty of Eng King Saud University, 2008 (achieved)

.

**Principal Investigator for The Sheikh Mohammad Al Amoudi Chair In EOR 2009- up to June 2013 (KSU, KSA)**

**2 Magister s Thesis achieved under the sponsoring of the Chair**

Magister Student Supervision at KSU

Wimpy Karnanda, (Indonesia), Petroleum and Natural Gas Eng, 2009-2010, Title of Thesis: Effect of High Pressure -Temperature and Adsorption on Surfactant Properties: Case of Saudi Crude Oil Recovery at Al Amoudi EOR Chair. Submitted on the 2nd of April, 2011 (Riyadh, KSA).

Mabkhot SalamaSaleh Bin Dahbag Effect of Ionic Liquids on the Efficiency of Crude Oil Recovery at Al Amoudi EOR Chair.Submitted on the 28<sup>th</sup> of September, 2013 (Riyadh, KSA).

**Magister Thesis achieved in Algeria: Control on Porous Medium, case of sandstone reservoirs based on synthetic cores, University of Constantine Algeria, May, 2015**

**Billel Boulmaiz Les Dolomies des Monts d Ain M lila. Cas du Dj Teioualt: Exploitation, Utilisation Industrielle et Impact sur l Environnement. Option Géologie des Substances Utiles, 2014**

**Cheriet M, 2000, Geotechnical Impact regarding the Dams Construction Algerian Cases (Beni Haroun, Ouedd Dhib, Mila)**

Aoun Monera M, 2000, Rock Mechanical and physical Determination for some substratum intended for site investigation: Case study

**Nacer W Etudes des Formations Carbonatees du Versant Sud du Massif de l OumSettas, Approche Quantitative et Qualitative, UniversiteMentouri Constantine, Algerie2005**

**PhD Thesis achieved,under my supervision 2016,**

**Expansive soils and effect of swelling on some of the sites investigation: Case Study in Algeria, University of Constantine, Algeria**

(Aoun M, Caractérisation Minéralogique, Physique et Cartographie des Sols Gonflants dans le Bassin de Tébéssa, Impact sur le Plan d'Aménagement, Université Mentouri, Constantine, Algérie (155 pp, plus annexes) 2016, (PhD soutenu))

**Cheriet M Etude Tectono-Sédimentaire du Coniacien,- Santonien, dans le Bassin du SE Constantinois, Intérêt Pétrolier, Université de Constantine, 322pp, (PhD soutenu)**

**Tectono-Sedimentation Investigation, impact on Petroleum Exploration, South East Constantine Bassin, 2016 (PhD)**

**Actual led Projects in Algeria (Ongoing Project in Algeria )**

Responsable Projet CNEPRU, Analyse Sedimentologique Biostratigraphique et Structurale du Massif de Sidi Rgis, Oum El Bouaghi, NE Algeria (Sedimentological Analysis and Biostratigraphy of the Area of Sidi Reghis, Algeria, Project accepted and ongoing), Projet Agree a partir du, 01/01/2016, Duree 4 ans, Code projet : E04N01UN040120150002 Domaine de Recherche : Sciences de la Nature et de l Univers, Filière, Geologie (Biostratigraphy, Sedimentology and Structural Impact for an Algerian Case Sudy (project led by a group of researchers from Geosciences Dept under my supervision)

CNEPRU, Member, Project : Minéralogie des argiles, géotechniques et impact socio-économique (Clay Mineral Analysis and their Use as Economical Issue). Université de Batna, Domaine des Sciences de la Terre. Projet agréé 01/01/2015, Durée 4 années, Code du projet : G013201140013, (Investigation on clay minerals, their industrial use and the socio economic impact)

### **Supervision PhD students:**

- (Porous Medium and clay quality - quantity, fluid properties Contribution towards the control on petrophysical characteristics): Reservoir Simulation by artificial cores (Home Made).
- Contribution sismique - diagraphie et l'intelligence artificielle pour la caractérisation de réservoir (Seismic Contribution, Logging Use and Neural Network on Reservoir Characterisation, Case Study From Algeria Oilfields)
- Rock Typing: Reservoir Determination from rock - fluid interaction and dynamic behavior: Case Study from an Algerian Oil Field Reservoir
- Contribution of Tectonic and , Microtectonic,: Geological and Geotechnical Site Investigations : Case of Jijel (Algeria) Area

### **Scientific& Professional Societies of Which Member**

Member of the Society of Petroleum Engineers, SPE. SPE Code Number; 3254333 and Former member of the SEPM. Member of the ABET (Accreditation -Board -Eng -Tech ) and awarded by the University of King Saud Faculty of Eng (Department ABET Committee)

HONORS, AWARDS & GRANTS Scholarship

Awarded for Publications on ISI Journals and for

ABET achievement as ABET Committee Member.

PhD-Scholarship sponsored by the Algerian Government-1985-90.

Awarded for the Capstone project (2011-12)

### **Institutional Service Activities:**

Responsible for the Dpt, Scientific Research activities at KSU Dpt of Petroleum,

Former President of the Scientific Committee for the Earth Sciences Department, university of Constantine (Algeria): 2004-2005

### **Some Professional Development Activities**

Chairman of the Organizational Committee: International Conference on “Geology and Oil Exploration, du Grand Constantinois et des Confinsalgero-tunisiens”, 9, 10 and 11th of May, 2005, (SGGC-2), Sponsored mainly by the Algerian Oil Company (Sonatrach, Algeria), the Gulf Keystone (International Texan Oil Company) and Mentouri-University (Constantine-Algeria)

Member for Sec-7 Scientific Committee, 2007 (Saudi Eng Conference)

Review Africa -Issue 6 2009 digital edition, Intervening in the Offshore Technology Favoured Processes (London, 2009), Reviewer for The Arabian Journal Geosciences, Elsevier (Sciences Direct)

## **Referees**

**Prof Amro:** TU Bergakademie Freiberg Institut für Bohrtechnik und Fluidbergbau Lehrstuhl für Geoströmungs-, Förder- und Speichertechnik  
University of TU Bergakademie Freiberg Germany, Institute of Drilling Fluids  
e-mail: [amro@mailserver.tu-freiberg.de](mailto:amro@mailserver.tu-freiberg.de)

**Prof Abdulrahman AlQuraishi** KACST, Petroleum Institute, Riyadh KSA  
[aqurishi@kacst.edu.sa](mailto:aqurishi@kacst.edu.sa)

**Prof Inas E N :** Prof Department of Chemical Eng Faculty of Eng King Saud University KSA  
e-mail: [inasalnashef@nashef2@yahoo.com](mailto:inasalnashef@nashef2@yahoo.com)

**LateefAkanji:** Senior Lecturer and Petroleum Engineering Programme Coordinator at University of Aberdeen Pétroleum Energie University of Aberdeen, Balms Enrgy LTD  
e-mail: [lat7777@yahoo.com](mailto:lat7777@yahoo.com)

## **Some of research interest:**

Reservoir Characterization, Porous medium and fluid properties the overall parameters controlling these characteristics, Chemical geochemical environmental impacts.

- a- Exploration from Well Site to Reservoir Characterization (Basin analysis – core description- Petrophysics-Geochemistry – fluid – solid and fluid-fluid properties , other characteristics are involved):
- b- Interested in the unconventional porous medium where unconventional reservoir properties have to be defined from basin Analysis, Lithology or Facies Distribution, Rheology, Solid Fluid and Flui-Fluid Interaction: Evaluation Approaches prior to any Exploration decision.
- c- . “Investigation on Clay behavior quality and quantity Elimination of formation damage resulting from clay minerals (e.g authigenic Illite pore-space fillings....: clay properties from

chemical composition to fluid impact and their behavior (Wettability, Capillary pressure, swelling, absorption and adsorption etc...): impact of fluid circulation and consequences, environmental fields.

### **Environmental Investigation on Chemicals**

- d- Formation Evaluation, EOR: Screening on Surfactants related to IFT, Salinity Temperature, Recovery optimization and Environmental – friendly chemicals investigation
- e- Understanding of the behaviour and environmental impacts of crude oil released into subsurface and aqueous environments (from diverse sources): identification of optimal strategies for contamination, awareness and response beside remediation. Crude oil types and behaviour prior and subsequent to water mixture (fresh brackish sea waters) chemical composition and toxicity effect etc....

**Benefits for the research community and recommendation for reliable predictions aiming to optimize and adjust accurate investment and research strategies.**