

PROCEDURA PUBBLICA DI SELEZIONE PER L'ASSUNZIONE DI N. 1 RICERCATORE A TEMPO DETERMINATO, AI SENSI DELL'ART. 24 COMMA 3 LETT. B) DELLA LEGGE N. 240/2010, PER IL SETTORE CONCURSALE 04/A2 "Geologia strutturale, geologia stratigrafica, sedimentologia e paleontologia" - SETTORE SCIENTIFICO-DISCIPLINARE GEO/03 "Geologia strutturale" - SCUOLA DI Scienze e Tecnologie UNIVERSITA' DEGLI STUDI DI CAMERINO, BANDITA CON D.R. PROT. N. 29532 DEL 29 aprile 2021, IL CUI AVVISO È STATO PUBBLICATO SULLA G.U. – IV° SERIE SPECIALE - N. 43 DEL 1° giugno 2021.

VERBALE N. 2

(Valutazione preliminare dei candidati)

Il giorno 05/10/2021 alle ore 10:00 ha luogo la seconda riunione della procedura riportata in epigrafe, sempre in via telematica, in considerazione dell'attuale situazione sanitaria legata alla diffusione del Covid-19. La Commissione nominata con decreto rettorale Prot. n. 48621 del 13 luglio 2021, pubblicato sulla Gazzetta Ufficiale – 4° Serie speciale - n. 64 del 13 agosto 2021, è composta da:

Prof. Emanuele Tondi - Presidente

Prof. Alessandro Maria Michetti - Componente

Prof. Fabrizio Agosta – Segretario verbalizzante

e si riunisce al completo per procedere all'esame dei titoli e delle pubblicazioni scientifiche presentati dai candidati.

La Commissione, accertato che i criteri di valutazione fissati nella precedente riunione sono stati resi pubblici per almeno sette giorni, senza che gli uffici amministrativi abbiano comunicato la ricezione di alcuna osservazione, prende nuovamente visione dei nominativi dei candidati e delle pubblicazioni da questi trasmesse sulla piattaforma informatica e constata che i candidati effettivamente da valutare sono tre, precisamente il Dott. Paolo PACE, il Dott. Abdul Rashid MEMON e il Dott. Miller del Carmen ZAMBRANO CARDENAS.

La Commissione, quindi, procede ad esaminare il materiale trasmesso da ciascun candidato e allegato sulla piattaforma informatica, verificando preliminarmente il possesso dei requisiti di partecipazione, di cui all'art. 3 del bando.



Per quanto riguarda le pubblicazioni, la Commissione prende in esame solo quelle corrispondenti all'elenco allegato alla domanda di partecipazione alla selezione, nel rispetto del limite massimo indicato nell'art. 1 del bando.

La Commissione, ai fini della presente selezione, prende in considerazione esclusivamente pubblicazioni o testi accettati per la pubblicazione, secondo le norme vigenti, nonché saggi inseriti in opere collettanee e articoli editi su riviste in formato cartaceo o digitale, con esclusione di note interne o rapporti dipartimentali. La tesi di dottorato o di titolo equipollente viene presa in considerazione anche in assenza delle condizioni sopra indicate.

Per la valutazione la Commissione tiene conto dei criteri stabiliti nella seduta preliminare del 14 Settembre 2021.

Vengono, quindi, prese in esame le pubblicazioni redatte in collaborazione con i Commissari della presente procedura di valutazione o con i terzi, al fine di valutare l'apporto del candidato.

In ordine alla possibilità di individuare l'apporto dei singoli coautori alle pubblicazioni presentate dai candidati, che risultano svolte in collaborazione con i componenti della Commissione, si precisa quanto segue:

Il Prof. Emanuele Tondi ha lavori in comune con il candidato e per i lavori di seguito riportati:

con il Dott. Miller del Carmen ZAMBRANO CARDENAS i lavori n. 1, 2, 3, 4, 5, 6, 7, 9, 10, 11, 12.

Il Prof. Fabrizio Agosta ha lavori in comune con il candidato e per i lavori di seguito riportati:

con il Dott. Miller del Carmen ZAMBRANO CARDENAS i lavori n. 6, 10, 11, 12.

La Commissione sulla scorta delle dichiarazioni del Prof Emanuele Tondi e del prof. Fabrizio Agosta delibera di ammettere all'unanimità le pubblicazioni in questione alla successiva fase del giudizio di merito.

Successivamente, dopo attenta analisi comparata dei lavori svolti in collaborazione tra i candidati e i terzi, la Commissione rileva che i contributi scientifici degli stessi sono enucleabili e distinguibili (tenuto conto, ad esempio, anche dell'attività scientifica globale sviluppata dal candidato, la Commissione ritiene che vi siano evidenti elementi di giudizio per individuare

l'apporto dei singoli coautori) e unanimemente delibera di ammettere alla successiva valutazione di merito i seguenti lavori:

Miller del Carmen ZAMBRANO CARDENAS 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12

Dott. Paolo PACE 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12

Dott. Abdul Rashid MEMON 1, 2, 3, 4

La Commissione, terminata la fase dell'enucleazione, tiene conto delle pubblicazioni presentate da ciascun candidato, come risulta dall'elenco, che viene allegato al verbale e ne costituisce parte integrante (**Allegato A al verbale n. 2 – Elenco pubblicazioni dei candidati**).

La Commissione procede poi all'esame dei titoli presentati da ciascun candidato, in base ai criteri individuati nella prima seduta (**Allegato B al verbale n. 2 – Curricula dei candidati**).

La Commissione procede ad effettuare la valutazione preliminare di ciascun candidato con motivato giudizio analitico sui titoli, sul curriculum e sulla produzione scientifica, ivi compresa la tesi di dottorato.

In merito alla produzione scientifica la Commissione esprime, nel giudizio collegiale, relativamente a ciascun candidato, il grado di creatività ed autonomia (**Allegato C al verbale n. 2 – Giudizi individuali e giudizi collegiali**).

Alle ore 12:00, accertato che è terminata la fase attinente alla redazione dei giudizi sui candidati, che sono uniti al presente verbale come parte integrante dello stesso, (Allegato C al verbale n. 2), la seduta è sciolta e la Commissione unanime decide di aggiornare i lavori alla data del seminario in lingua inglese, ossia al giorno 05/10/2021 ore 15:00.

Il presente verbale è letto, approvato e sottoscritto seduta stante.

Data, 05/10/2021

LA COMMISSIONE:

Prof. Emanuele Tondi – Presidente



N.B La Commissione, anziché riportare i titoli dei candidati, può far riferimento ai curricula presentati dagli stessi.
Questi dovranno essere allegati al presente verbale e siglati in ogni foglio da ciascun componente della Commissione.

ABDUL RASHID ABDUL NABI MEMON

Bungalow no 39, Aanad Sahakari Society, Thakurpada, Mumbra, Thane - 400612
E-mail: abrashid79@hotmail.com; Mobile: +91 (0) 9833365003 / 8976568786

SUMMARY

- | | |
|--------------------------------------|--|
| ✓ Dynamic Reservoir Modelling | ✓ Well Test Interpretation |
| ✓ Reservoir Simulation Studies | ✓ Production Forecasting |
| ✓ PVT Analysis, EOS Characterization | ✓ MBAL Modelling |
| ✓ Field Development Planning | ✓ HPHT IFT & Core-flooding Experiments |

PROFILE

Jan 2016 – Till date HB Consultancy, Bangalore, INDIA (Free Lance position)



As a "Senior Reservoir Engineering consultant, my working profile includes

- Carry out studies related to CO₂ flooding and Chemical EOR
- Well Test Design and Interpretation
- Dynamic Modelling and Simulation studies using E100 and E300
- Decline Curve Analysis, Production Forecasting and Reserves Estimation
- Documenting drafts, reports, and presentations for client submission.

Aug 2012 – Dec 2015 SHELL – INDIA, Bangalore, INDIA (Seconded position)



As a "Reservoir Engineer", my working profile includes

- The primary objective was to QA / QC the operators work and validate the model inputs
- Review operator Eclipse Black oil model - E100
- PVT - EOS modeling to estimate condensate to gas ratio (CGR)
- Well test interpretation to determine reservoir parameters, reservoir & boundary models
- Contribution to porosity & permeability determination.
- Knowledge in Analyzing and Interpreting well logs for fluid saturation, porosity, density, and lithology.
- Residual Gas saturation determination
- Aquifer characterization
- Construction and Maintenance of Material Balance (MBAL) Model

Achievement: Successfully achieved the project outline and improved the earlier results and developed MBAL model for Gas Condensate reservoir which results in the estimation of remaining hydrocarbon resource potential.

Sep 2008 – Aug 2011 CSIRO Petroleum Resources, Perth, AUSTRALIA



As a "Research Reservoir engineer", my working profile includes

- Analyze and perform experimental design and maintenance of facilities
- Carryout HPHT core flooding experiments to determine relative permeability for water flooding (IOR), EOR, MEOR and gas injection projects with and without the use of X-ray CT.
- Carryout HPHT experiments related to interfacial tension determination.
- Determination of porosity & permeability with the help of Poro-Perm meter.
- Measuring and evaluation of micro-emulsion in oil and water system and effect of them on EOR.
- Documenting drafts, reports, and presentations for client submission, papers, and conferences

Achievement: Successfully achieved the project outline, developed core flooding apparatus for X-ray CT and produced results which are published as research papers and in a conference presentation.

Key Accountabilities

Mentorship: Assist Ph.D. and Master student to achieve the project goals designed by Line Manager

HSE Management: Recognize and act on the duty to both self and teammates and those around to ensure that safe practice is performed at all times in the laboratory. In addition to any specific accountability for HSSE adopt exemplary safe behaviors.

Training Undergone

- 13 Dec – 15 Dec 2009 Core drilling and core preparation for core flooding experiments (Work Safe) – Australia
- 10 Nov 2009 Gas Handling and Safety Course (BOC) – Australia
- 27 Oct 2009 Fire Fighting Course (Protector Fire Service Pvt. Ltd) - Australia
- 15 May 2009 The radiation safety course (RadSafe) – Australia
- 11 Nov 2008 Senior first Aid course & Emergency Course (St. John's Hospital) – Australia

Feb 2006 – Jul 2008 Horizon Energy Partners B.V. (HEP), The Hague, THE NETHERLANDS

As a "Reservoir Engineer", my working profile includes

- Well Test Analysis for determination of permeability, skin and reservoir boundary
- Estimates of Resources in place using FLOW grid software.
- Construction and Maintenance of well and field simulation models (black oil) for reservoir development and decision making using E100
- Field development planning by deciding the number of wells, spacing and optimizing perforation intervals for production forecasting.
- Contribution to fluid and rock properties determination.
- Maintain reservoir pressure database management using OFM.
- Determination of well/reservoir characteristics using **decline curve analysis** for oil wells.



Achievement: Successfully achieved the project outline and constructed ECLIPSE reservoir model and delivered to Client.

Training Undergone

- 12 June – 13 June 2006 Petrel Reservoir Engineering Course (Schlumberger) – The Hague, The Netherlands



Sep 2003 – Dec 2005 Technical University of Denmark (DTU), DENMARK



- M Sc in Petroleum Engineering; (GPA: 9/13 ~ 73%, B)
- Thesis: "**Simulation of CO₂ Injection in Weyburn for EOR and Sequestration**" GPA (10/13 ~ 84%, B+)

The aim of the thesis is to study; " the impact of grid refinement through numerical sensitivity calculations when applied on reservoir scale using compositional simulator *Eclipse 300*. The key component to this study includes Equation of State (EOS) modelling to match experimental PVT properties and Minimum Miscibility Pressure (MMP) of Weyburn reservoir fluid - CO₂ mixture with Pedersen et al (1989) characterization procedure and SPECS PVT program developed by IVC-SEP, Technical University of Denmark. The study also examines the effect of various tuning and lumping of components on PVT properties and MMP to minimize the computational requirements. A large 3-D reservoir model containing 44,530 grid blocks, which encompasses 215 wells is developed to predict the future reservoir performance and to optimize the sequestration of CO₂ gas under various operating strategies and development scenarios. Various operating strategies are considered including Continuous CO₂ flood, Water Alternating Gas (WAG) and Hybrid WAG"

Sep 2001 – Sep 2003 Ravi Dye Ware Company Limited, INDIA

As a "Chemical Process Engineer", my working profile includes

- Monitor daily production of Malachite Green (M.G.) product.
- Handled troubleshooting during operation.
- Monitored start-up and shut down of process batch plant and maintained shift records.



Achievement: Increased in the recovery of M.G product (Powder + crystals) from M.G mother liquor, which results in gained production quantity and decreased effluent concentration by increasing revenues.

Jul 2000 – Aug 2001 **Allana Pvt. Ltd, INDIA**

As a "Chemical Engineer", my working profile includes

- Monitor daily production of Fats and Meat & Bone Meal product.
- Handled troubleshooting during operation.
- Monitored start-up and shut down of process batch plant and maintained shift records.



1997 – 2000

Dr. Babasaheb Ambedkar Technological University, INDIA

- B Tech in Chemical Engineering (First Class with Distinction); 72.11%.
- Thesis: "Design of Cyclone Separator and Fabric Filter for Air Pollution Control".



1994 – 1997

S.H. Jondhale Polytechnic, INDIA

- Diploma in Chemical Engineering (First Class); 72.27%.
- Ranked 3rd in Polytechnic and 38th in Maharashtra state.
- Thesis: "Extraction & Distillation of Oil by Solvent Extraction Method".



March 1994

Mahila Samiti English High School, INDIA

- Distinction grade; 78%.

PROFESSIONAL MEMBERSHIP

2009 – 2011	Member of Formation Evaluation Society of Australia	<i>Australia</i>
2003 – 2005	Member of Society of petroleum engineers (SPE), Copenhagen	<i>Denmark</i>
1998 – 2000	Student member of American Oil Chemist Society (AOCS) the	<i>USA</i>
1997 – 2000	Student member of Indian Institute of Chemical Engineering (IICHE)	<i>INDIA</i>

COMPUTER APPLICATIONS

Reservoir Simulators Software's	Eclipse 100 & 300 (Schlumberger); 3DSL (Stanford University). Ecrin (Kappa), ShoeBox v 4.01, Serafim Future (V0.11.0.21) (Basic Knowledge), OFM (Schlumberger), Also Familiar with SAP
Programming	MATLAB (Basic)
PVT Simulators	PVT Sim, MI – PVT; SPECS (IVC-SEP)
Viscosity Simulators	VISCO-CHECK
Working environment	Windows

EQUIPMENT'S OPERATED

Core flooding Apparatus (TEMCO)	Inverted Pendant Drop Apparatus (TEMCO)
Density Meter (DE – 40) (METTLER TOLEDO)	Viscometer VISCOLAB 4000 (CAMBRIDGE)
Permeameter & Porosity meter (TEMCO)	
X- Ray CT scanner (SIEMENS – 4 th Generation), (TOSHIBA – 3 rd Generation)	

CONFERENCE PRESENTATION

M. Bahar, K. Liu, A. Rashid; **Laboratory Core Flooding Experiments Using Bio-Surfactant and Molasses: Implications for Microbial EOR; IEA – EOR; 21 – 23 September 2009, Canberra, Australia.**

PUBLICATIONS CONTRIBUTED

M. Bahar, K. Liu, and A. Rashid, **Stimulation of Stable Micro-Emulsion at Oil-Water Interface Using Co-Surfactants as an alternative method for Enhanced Oil Recovery**, SPE 158801, SPE Oil and Gas conference, Perth, Australia, 22-24 October 2012.

Keyu Liu et al, **Laboratory Investigation of Factors Affecting CO₂ Enhanced Oil and Gas Recovery**, SPE – 165270-MS, SPE EOR conference, 2 – 4 July, KL, Malaysia, 2013.

Xiaoyi Wang et al; **Effect of Nutrient Addition on an Oil Reservoir Microbial Population: Implications for Enhanced Oil Recovery**; J Pet Environ Biotechnol 3:118. doi:10.4172/2157-7463.1000118.

Liu, K., Tang, X., Rashid, A. and Wei, X., 2012; **Petroleum migration and accumulation models revisited from a reservoir engineering perspective**; AAPG 2012 International Conference & Exhibition, 16-19 September 2012, Singapore

Bahar, M., Liu, K., Rashid, A., Wei, X. and Wang, X., 2009; **Laboratory core flooding experiments using bio-surfactant and molasses: implications for microbial EOR**; Presented at the 30th IEA Workshop and Symposium on Enhanced Oil Recovery, Sept. 20-23, 2009, Canberra, Australia.

Liu, K., Sayem, T., Bahar, M., Ghafram Al Shahri, Rashid, A., Wei, X. and Volk, H.; **Analysing the success factors behind various EOR techniques using laboratory core flooding experiments**; Invited presentation the IQPC EOR 2009, June 23-25, 2009, K.L., Malaysia.

Liu, K., Rashid, A. and Clennell, B.; 2011; **Laboratory investigation of the behaviour of supercritical CO2 displacing N2 gas in sandstone under reservoir conditions**; A report to Shell Australia. CSIRO Confidential Report No. EP111780, 45 pp.

Li, D., Hendry, P., Sutherland, T., Chyb, M., Sriskantha, S., Wang, X., Ahmed, M., Gong, S., Zabaras, D., Liu, K., Bahar, M., Rashid, A., Wei, X. and Volk, H.; 2009; **Microbial characteristics of fluids from the Bokor oilfield and their potential applications**; A report to PETRONAS Research Sdn Bhd. CSIRO Petroleum Confidential Report No. 09-008, 54 pp.



Abdul Rashid Memon

Dated: 21/6/2021

1. Pace P., Di Cuia R. & Mascolo V. 2020. Revitalising exploration and re-development of deep carbonate targets in the Southern Apennines thrust belt (Southern Italy) by integrating vintage data with modern structural concepts. The Geological Society Special Publications: Fold and Thrust Belts: Structural Style, Evolution and Exploration, 490, 221-240, <https://doi.org/10.1144/SP490-2019-28>.
2. Scisciani V., Patruno S., Tavarnelli E., Calamita F., Pace P. & Iacopini D. 2019. Multi-phase reactivations and inversions of Paleozoic-Mesozoic extensional basins during the 566 Wilson Cycle: case studies from the North Sea (UK) and Northern Apennines (Italy). In: Wilson, W. R., Houseman, G. A., McCaffrey, K. J. W., Doré, A. G. & Buitter, S. J. H. (Eds), Fifty Years of the Wilson Cycle Concept in Plate Tectonics. Geological Society, London, Special Publication, 470, 205-243, doi: 10.1144/SP470-2017-232.
3. Francioni M., Pace P., Vitulli M., Sciarra N. & Calamita, F. 2019. Distribution of joints in the hinge-line culmination of foreland-verging overturned anticlines: an example from the Montagna dei Fiori structure in Central Apennines of Italy. Geological Magazine, 156, 1445-1454, doi: 10.1017/S0016756819000050.
4. Calamita F., Di Domenica A. & Pace P. 2018. Macro- and meso-scale structural criteria for identifying pre-thrusting normal faults within foreland fold-and-thrust belts: Insights from the Central-Northern Apennines (Italy). Terra Nova, 30, 50-62, doi: 10.1111/ter.12307.
5. Pace P., Pasqui V., Tavarnelli E. & Calamita F. 2017. Foreland-directed gravitational collapse along curved thrust fronts: insights from a minor thrust-related shear zone in the Umbria Marche belt, central-northern Italy. Geological Magazine, 154(2), 381-392, doi: 10.1017/S0016756816000200.
6. Pace P. & Calamita F. 2015. Coalescence of fault-bend and fault-propagation folding in curved thrust systems: an insight from the Central Apennines, Italy. Terra Nova, 27, 175-183, doi: 10.1111/ter.12146.
7. Pace P., Scisciani V., Calamita F., Butler R.W.H., Iacopini D., Eserime P. & Hodgson N. 2015. Inversion structures in a foreland domain: Seismic examples from the Italian Adriatic Sea. Interpretation, 3(4), SAA161-SAA176, doi:10.1190/INT-2015-0013.1.
8. Pace P., Calamita, F. & Tavarnelli, E. 2015. Brittle-ductile shear zones along inversion-related frontal and oblique thrust ramps: Insights from the Central-Northern Apennines curved thrust system (Italy). In: Mukherjee, S. & Mulchrone, K. F. (ed) Ductile Shear Zones: From Micro- to Macro-scales. Wiley-Blackwell, doi: 10.1002/9781118844953.ch8.
9. Pace P., Di Domenica, A. & Calamita F. 2014. Summit Low-Angle Faults in the Central Apennines of Italy: younger-on-older thrusts or rotated normal faults? Constraints for defining the tectonic style of thrust belts. Tectonics, 33, doi: 10.1002/2013TC003385.
10. Pace P. & Calamita F. 2014. Push-up inversion structures vs. fault-bend reactivation anticlines along oblique thrust ramps: examples from the Apennines fold-and-thrust belt (Italy). Journal of the Geological Society, 171, 227-238, doi: 10.1144/jgs2013-053.
11. Satolli S., Pace P., Viandante M.G. & Calamita F. 2014. Lateral variations in tectonic style across cross-strike discontinuities: an example from the Central Apennines belt (Italy). International Journal of Earth Sciences, 103, 2301-2313, doi: 10.1007/s00531-014-1052-3.
12. Scisciani V., Agostini S., Calamita F., Pace P., Cilli A., Giori I. & Paltrinieri W. 2014. Positive inversion tectonics in foreland fold-and-thrust belts: A reappraisal of the Umbria-Marche Northern Apennines (Central Italy) by integrating geological and geophysical data. Tectonophysics, 637, 218-237, doi:10.1016/j.tecto.2014.10.010.

22/06/2021

[Handwritten signature]

[Handwritten signature]

MAIN PUBLICATIONS:

1. Zambrano, M., *et al.* (2021). Pore-scale dual-porosity and dual-permeability modeling in an exposed multi-facies porous carbonate reservoir. *Marine and Petroleum Geology*, 128, 105004.
2. Zambrano, M., *et al.* (2019). Analysis of fracture roughness control on permeability using SFM and fluid flow simulations: Implications for carbonate reservoir characterization. *Geofluids*, 2019.
3. Zambrano, M., *et al.* (2019). Implementation of dynamic neutron radiography and integrated X-ray and neutron tomography in porous carbonate reservoir rocks. *Frontiers in Earth Science*, 7, 329.
4. Zambrano, M., *et al.* (2018). Fluid flow simulation and permeability computation in deformed porous carbonate grainstones. *Advances in Water Resources*, 115.
5. Zambrano, M., *et al.* (2017). 3D Pore-network quantitative analysis in deformed carbonate grainstones. *Marine and Petroleum Geology*, 82.
6. Zambrano, M., *et al.* (2016). Fracture properties analysis and discrete fracture network modelling of faulted tight limestones, Murge Plateau, Italy. *Italian Journal of Geosciences*, 135(1), 55-67.
7. Riegel, H., *et al.* (2019). Petrophysical properties and microstructural analysis of faulted heterolithic packages: a case study from Miocene turbidite successions, Italy. *Geofluids*, 2019.
8. Mendez, J. N., *et al.* (2019). Fracture characterization and modeling in karsted carbonate reservoirs: A case study in Tahe oilfield, Tarim Basin (western China). *Marine and Petroleum Geology*, 104104.
9. Volatili, T., *et al.* (2019). From fracture analysis to flow simulations in fractured carbonates: The case study of the Roman Valley Quarry (Majella Mountain, Italy). *Marine and Petroleum Geology*, 100, 95-110.
10. Panza, E., *et al.* (2016). Fracture stratigraphy and fluid flow properties of shallow-water, tight carbonates: the case study of the Murge Plateau (southern Italy). *Marine and Petroleum Geology*, 73, 350-370.
11. Panza, E., *et al.* (2015). Structural architecture and Discrete Fracture Network modelling of layered fractured carbonates (Altamura Fm., Italy). *Italian Journal of Geosciences*, 134(3), 409-422.
12. Antonellini, M., *et al.* (2014). Fluid flow numerical experiments of faulted porous carbonates, northwest Sicily (Italy). *Marine and Petroleum Geology*, 55, 186-201.

Data: 09/06/2021



ABDUL RASHID ABDUL NABI MEMON

Bungalow no 39, Aanad Sahakari Society, Thakurpada, Mumbra, Thane - 400612
E-mail: abrashid79@hotmail.com; Mobile: +91 (0) 9833365003 / 8976568786

SUMMARY

- | | |
|---|--|
| <ul style="list-style-type: none"> ✓ Dynamic Reservoir Modelling ✓ Reservoir Simulation Studies ✓ PVT Analysis, EOS Characterization ✓ Field Development Planning | <ul style="list-style-type: none"> ✓ Well Test Interpretation ✓ Production Forecasting ✓ MBAL Modelling ✓ HPHT IFT & Core-flooding Experiments |
|---|--|

PROFILE

Jan 2016 – Till date **HB Consultancy, Bangalore, INDIA (Free Lance position)**

As a "Senior Reservoir Engineering consultant, my working profile includes

- Carry out studies related to CO₂ flooding and Chemical EOR
- Well Test Design and Interpretation
- Dynamic Modelling and Simulation studies using **E100 and E300**
- Decline Curve Analysis, Production Forecasting and Reserves Estimation
- Documenting drafts, reports, and presentations for client submission.



Aug 2012 – Dec 2015 **SHELL – INDIA, Bangalore, INDIA (Seconded position)**

As a "Reservoir Engineer", my working profile includes

- The primary objective was to QA / QC the operators work and validate the model inputs
- Review operator Eclipse Black oil model - **E100**
- PVT - EOS modeling to estimate condensate to gas ratio (CGR)
- Well test interpretation to determine reservoir parameters, reservoir & boundary models
- Contribution to porosity & permeability determination.
- Knowledge in Analyzing and Interpreting well logs for fluid saturation, porosity, density, and lithology.
- Residual Gas saturation determination
- Aquifer characterization
- Construction and Maintenance of Material Balance (MBAL) Model



Achievement: Successfully achieved the project outline and improved the earlier results and developed MBAL model for Gas Condensate reservoir which results in the estimation of remaining hydrocarbon resource potential.

Sep 2008 – Aug 2011 **CSIRO Petroleum Resources, Perth, AUSTRALIA**

As a "Research Reservoir engineer", my working profile includes

- Analyze and perform experimental design and maintenance of facilities
- Carryout HPHT core flooding experiments to determine relative permeability for water flooding (IOR), EOR, MEOR and gas injection projects with and without the use of X-ray CT.
- Carryout HPHT experiments related to interfacial tension determination.
- Determination of porosity & permeability with the help of Poro-Perm meter.
- Measuring and evaluation of micro-emulsion in oil and water system and effect of them on EOR.
- Documenting drafts, reports, and presentations for client submission, papers, and conferences



Achievement: Successfully achieved the project outline, developed core flooding apparatus for X-ray CT and produced results which are published as research papers and in a conference presentation.

Key Accountabilities

Mentorship: Assist Ph.D. and Master student to achieve the project goals designed by Line Manager

HSE Management: Recognize and act on the duty to both self and teammates and those around to ensure that safe practice is performed at all times in the laboratory. In addition to any specific accountability for HSSE adopt exemplary safe behaviors.

Training Undergone

- 13 Dec – 15 Dec 2009 Core drilling and core preparation for core flooding experiments (Work Safe) – Australia
- 10 Nov 2009 Gas Handling and Safety Course (BOC) – Australia
- 27 Oct 2009 Fire Fighting Course (Protector Fire Service Pvt. Ltd) - Australia
- 15 May 2009 The radiation safety course (RadSafe) – Australia
- 11 Nov 2008 Senior first Aid course & Emergency Course (St. John's Hospital) – Australia

Feb 2006 – Jul 2008 Horizon Energy Partners B.V. (HEP), The Hague, THE NETHERLANDS

As a "Reservoir Engineer", my working profile includes

- Well Test Analysis for determination of permeability, skin and reservoir boundary
- Estimates of Resources in place using FLOW grid software.
- Construction and Maintenance of well and field simulation models (black oil) for reservoir development and decision making using E100
- Field development planning by deciding the number of wells, spacing and optimizing perforation intervals for production forecasting.
- Contribution to fluid and rock properties determination.
- Maintain reservoir pressure database management using OFM.
- Determination of well/reservoir characteristics using **decline curve analysis** for oil wells.



Achievement: Successfully achieved the project outline and constructed ECLIPSE reservoir model and delivered to Client.

Training Undergone

- 12 June – 13 June 2006 Petrel Reservoir Engineering Course (Schlumberger) – The Hague, The Netherlands

 **Sep 2003 – Dec 2005 Technical University of Denmark (DTU), DENMARK**

- M Sc in Petroleum Engineering; (GPA: 9/13 ~ 73%, B)
- Thesis: "Simulation of CO₂ Injection in Weyburn for EOR and Sequestration GPA (10/13 ~ 84%, B+)



The aim of the thesis is to study; " the impact of grid refinement through numerical sensitivity calculations when applied on reservoir scale using compositional simulator *Eclipse 300*. The key component to this study includes Equation of State (EOS) modelling to match experimental PVT properties and Minimum Miscibility Pressure (MMP) of Weyburn reservoir fluid - CO₂ mixture with Pedersen et al (1989) characterization procedure and SPECS PVT program developed by IVC-SEP, Technical University of Denmark. The study also examines the effect of various tuning and lumping of components on PVT properties and MMP to minimize the computational requirements. A large 3-D reservoir model containing 44,530 grid blocks, which encompasses 215 wells is developed to predict the future reservoir performance and to optimize the sequestration of CO₂ gas under various operating strategies and development scenarios. Various operating strategies are considered including Continuous CO₂ flood, Water Alternating Gas (WAG) and Hybrid WAG"

Sep 2001 – Sep 2003 Ravi Dye Ware Company Limited, INDIA

As a "Chemical Process Engineer", my working profile includes

- Monitor daily production of Malachite Green (M.G.) product.
- Handled troubleshooting during operation.
- Monitored start-up and shut down of process batch plant and maintained shift records.



Achievement: Increased in the recovery of M.G product (Powder + crystals) from M.G mother liquor, which results in gained production quantity and decreased effluent concentration by increasing revenues.

Jul 2000 – Aug 2001

Allana Pvt. Ltd, INDIA

As a "Chemical Engineer", my working profile includes

- Monitor daily production of Fats and Meat & Bone Meal product.
- Handled troubleshooting during operation.
- Monitored start-up and shut down of process batch plant and maintained shift records.



1997 – 2000

Dr. Babasaheb Ambedkar Technological University, INDIA

- B Tech in Chemical Engineering (First Class with Distinction); 72.11%.
- Thesis: "Design of Cyclone Separator and Fabric Filter for Air Pollution Control".



1994 – 1997

S.H. Jondhale Polytechnic, INDIA

- Diploma in Chemical Engineering (First Class); 72.27%.
- Ranked 3rd in Polytechnic and 38th in Maharashtra state.
- Thesis: "Extraction & Distillation of Oil by Solvent Extraction Method".



March 1994

Mahila Samiti English High School, INDIA

- Distinction grade; 78%.

PROFESSIONAL MEMBERSHIP

2009 – 2011	Member of Formation Evaluation Society of Australia	Australia
2003 – 2005	Member of Society of petroleum engineers (SPE), Copenhagen	Denmark
1998 – 2000	Student member of American Oil Chemist Society (AOCS) the	USA
1997 – 2000	Student member of Indian Institute of Chemical Engineering (IICHE)	INDIA

COMPUTER APPLICATIONS

Reservoir Simulators	Eclipse 100 & 300 (Schlumberger); 3DSL (Stanford University).
Software's	Ecrin (Kappa), ShoeBox v 4.01, Serafim Future (V0.11.0.21) (Basic Knowledge), OFM (Schlumberger), Also Familiar with SAP
Programming	MATLAB (Basic)
PVT Simulators	PVT Sim, MI – PVT; SPECS (IVC-SEP)
Viscosity Simulators	VISCO-CHECK
Working environment	Windows

EQUIPMENT'S OPERATED

Core flooding Apparatus (TEMCO)	Inverted Pendant Drop Apparatus (TEMCO)
Density Meter (DE – 40) (METTLER TOLEDO)	Viscometer VISCOLAB 4000 (CAMBRIDGE)
Permeameter & Porosity meter (TEMCO)	
X- Ray CT scanner (SIEMENS – 4 th Generation), (TOSHIBA – 3 rd Generation)	

CONFERENCE PRESENTATION

M. Bahar, K. Liu, A. Rashid; Laboratory Core Flooding Experiments Using Bio-Surfactant and Molasses: Implications for Microbial EOR; IEA – EOR; 21 – 23 September 2009, Canberra, Australia.

PUBLICATIONS CONTRIBUTED

M. Bahar, K. Liu, and A. Rashid, Stimulation of Stable Micro-Emulsion at Oil-Water Interface Using Co-Surfactants as an alternative method for Enhanced Oil Recovery, SPE 158801, SPE Oil and Gas conference, Perth, Australia, 22-24 October 2012.

Keyu Liu et al, Laboratory Investigation of Factors Affecting CO₂ Enhanced Oil and Gas Recovery, SPE – 165270-MS, SPE EOR conference, 2 – 4 July, KL, Malaysia, 2013.

Xiaoyi Wang et al; **Effect of Nutrient Addition on an Oil Reservoir Microbial Population: Implications for Enhanced Oil Recovery**; J Pet Environ Biotechnol 3:118. doi:10.4172/2157-7463.1000118.

Liu, K., Tang, X., Rashid, A. and Wei, X., 2012; **Petroleum migration and accumulation models revisited from a reservoir engineering perspective**; AAPG 2012 International Conference & Exhibition, 16-19 September 2012, Singapore

Bahar, M., Liu, K., Rashid, A., Wei, X. and Wang, X., 2009; **Laboratory core flooding experiments using bio-surfactant and molasses: implications for microbial EOR**; Presented at the 30th IEA Workshop and Symposium on Enhanced Oil Recovery, Sept. 20-23, 2009, Canberra, Australia.

Liu, K., Sayem, T., Bahar, M., Ghafam Al Shahri, Rashid, A., Wei, X. and Volk, H.; **Analysing the success factors behind various EOR techniques using laboratory core flooding experiments**; Invited presentation the IQPC EOR 2009, June 23-25, 2009, K.L., Malaysia.

Liu, K., Rashid, A. and Clennell, B.; 2011; **Laboratory investigation of the behaviour of supercritical CO2 displacing N2 gas in sandstone under reservoir conditions**; A report to Shell Australia. CSIRO Confidential Report No. EP111780, 45 pp.

Li, D., Hendry, P., Sutherland, T., Chyb, M., Sriskantha, S., Wang, X., Ahmed, M., Gong, S., Zabarar, D., Liu, K., Bahar, M., Rashid, A., Wei, X. and Volk, H.; 2009; **Microbial characteristics of fluids from the Bokor oilfield and their potential applications**; A report to PETRONAS Research Sdn Bhd. CSIRO Petroleum Confidential Report No. 09-008, 54 pp.



Abdul Rashid Memon

Dated: 21/6/2021



Individual Contribution to Research Projects (CSIRO) & Publications

Sep 2008 – Aug 2011 **Research Reservoir engineer, CSIRO Petroleum Resources, Perth, AUSTRALIA**

1. Project Name: The research project between (*PETRONAS + CSIRO*) which deals with the study of key factors affecting the change in mobility ratio through change in IFT, Bio-clogging, Micro-emulsion techniques and by-products produced in reservoir by selecting right microbes and their nutrients to increase the oil production from the *Bokor Field - Malaysia* using *MEOR* technique.

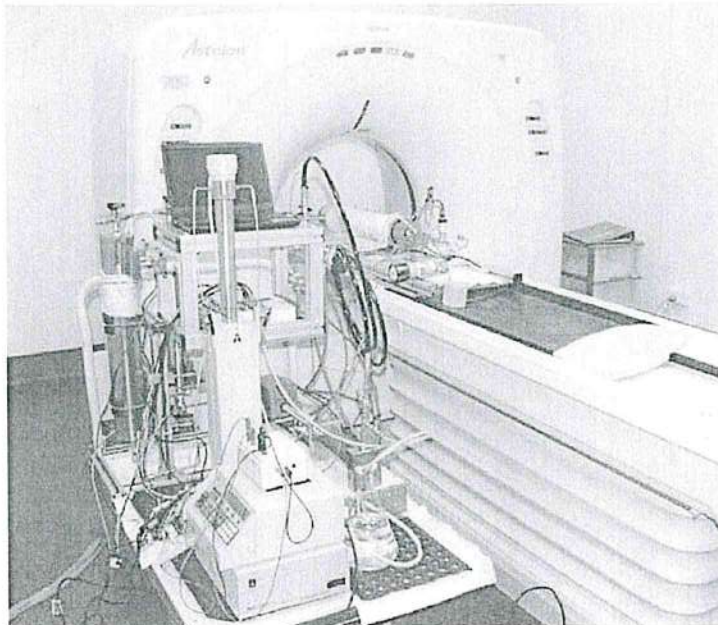
My individual working profile includes

- Operating and Maintenance of HPHT Core flooding apparatus without X Ray CT.
- Operating and Maintenance HPHT Inverted Pendant apparatus for measurement of Interfacial tension (IFT).
- Operating and Maintenance of apparatus for measurement of physical properties of reservoir fluids and core samples.
- Measurement and evaluation of micro-emulsion in oil and water system and effect of them on EOR
- Preparing draft reports and presentations for the client & conferences.

2. Project Name: A joint collaborative consulting research project among (*SHELL + UWA + CSIRO*) which deals with the study of displacement of N_2 by supercritical CO_2 in the tight sandstone reservoir of Browse Basin, Australia

My working profile includes

- Design equipment and contribution to development of rig for X-Ray CT as shown below.
- Operating and Maintenance of HPHT core flooding experiments related to gas injection in the tight sandstone rock samples using X-ray CT.
- Preparation & Measurement of Permeability and Porosity of provided rock sample for core flooding experiments.
- **Analyzing results and images of rock samples obtained from CT using image analysis software (IMAGE-J).**
- Documenting report and presentation for the client submission.



Individual Contribution to Research Projects (CSIRO) & Publications

CONFERENCE PRESENTATION

1. M. Bahar, K. Liu, A. Rashid; **Laboratory Core Flooding Experiments Using Bio-Surfactant and Molasses: Implications for Microbial EOR**; IEA – EOR; 21 – 23 September 2009, Canberra, Australia.

PUBLICATIONS CONTRIBUTED

1. M. Bahar, K. Liu and A. Rashid; **Stimulation of Stable Micro-Emulsion at Oil Water Interface Using Co-Surfactants as an alternative method for Enhanced Oil Recovery**; SPE 158801; SPE Oil and Gas conference, Perth, Australia, 22-24 October 2012.
2. Keyu Liu, et al; **Laboratory Investigation of Factors Affecting CO₂ Enhanced Oil and Gas Recovery**; SPE – 165270-MS; SPE EOR conference, KL, Malaysia, 2013.
3. Xiaoyi Wang, et al; **Effect of Nutrient Addition on an Oil Reservoir Microbial Population: Implications for Enhanced Oil Recovery**; J Pet Environ Biotechnol; 3:118. doi:10.4172/2157-7463.1000118.
4. Liu, K., Tang, X., Rashid, A. and Wei, X., 2012; **Petroleum migration and accumulation models revisited from a reservoir engineering perspective**; AAPG 2012 International Conference & Exhibition, 16-19 September 2012, Singapore
5. Bahar, M., Liu, K., Rashid, A., Wei, X. and Wang, X., 2009; **Laboratory core flooding experiments using bio-surfactant and molasses: implications for microbial EOR**; Presented at the 30th IEA Workshop and Symposium on Enhanced Oil Recovery, Sept. 20-23, 2009, Canberra, Australia.
6. Liu, K., Sayem, T., Bahar, M., Ghafam Al Shahri, Rashid, A., Wei, X. and Volk, H.; **Analysing the success factors behind various EOR techniques using laboratory core flooding experiments**; Invited presentation the IQPC EOR 2009, June 23-25, 2009, K.L., Malaysia.
7. Liu, K., Rashid, A. and Clennell, B.; 2011; **Laboratory investigation of the behaviour of supercritical CO₂ displacing N₂ gas in sandstone under reservoir conditions**; A report to Shell Australia. CSIRO Confidential Report No. EP111780, pp 45.
8. Li, D., Hendry, P., Sutherland, T., Chyb, M., Sriskantha, S., Wang, X., Ahmed, M., Gong, S., Zabar, D., Liu, K., Bahar, M., Rashid, A., Wei, X. and Volk, H.; 2009; **Microbial characteristics of fluids from the Bokor oilfield and their potential applications**; A report to PETRONAS Research Sdn Bhd. CSIRO Petroleum Confidential Report No. 09-008, pp 54.



References

1. Prof. Keyu Liu Team Leader – CSIRO, Australia
Specially Recruited Professor,
School of Geosciences, China University of Petroleum, China
Phone: +86 13439327538
Email: keyu.liu@icloud.com

2. Dr. Mohammad Bahar Snr. Reservoir Engineer – CSIRO, Australia
Senior Reservoir Engineer,
Department of Mines and Petroleum,
Phone: +61432209845
Email: Mohammad.bahar@dmp.wa.gov.au



Paolo Pace, Ph.D.

Geologo Strutturale versatile con una forte impronta applicativa alla geologia delle risorse di sottosuolo (esplorazione e sviluppo di idrocarburi, geotermia, CCS) con esperienza in caratterizzazione e analisi di strutture dalla scala sub-sismica del pozzo/reservoir e affioramento, alla scala sismica/regionale.

Specializzato nelle analisi geologico-strutturali di campagna, nell'interpretazione sismica di dati 2D e 3D in diversi regimi tettonici, nella caratterizzazione e modellazione di reservoirs carbonatici fratturati, nella valutazione delle potenzialità petrolifere e individuazione/ricostruzione di obiettivi minerari (prospects e leads).

Esperienza professionale a scala globale: Guatemala, Colombia, Albania, Croazia, Italia, Spagna, Svizzera, Iraq, Georgia e Kazakistan.

ESPERIENZA PROFESSIONALE

G.E.Plan Consulting S.r.l. , Ferrara, IT

(Ottobre 2015 – attuale)

Specialista in Geologia Strutturale e Geologia degli Idrocarburi

Responsabile e specialista in numerosi progetti tecnici riguardanti l'esplorazione e lo sviluppo di idrocarburi sia in contesti di catena e di avampaese deformato che di sistemi estensionali, principalmente in reservoirs carbonatici fratturati. Esperienza nella valutazione del potenziale esplorativo dalla scala del regionale del bacino fino alla quella del prospect, esperienza anche nelle attività di sviluppo, produzione e ri-sviluppo attraverso l'integrazione multidisciplinare di vari dati di superficie e di sottosuolo.

Co-leader di numerosi training sia di campagna "*field-seminars*" che di classe per compagnie petrolifere internazionali (Shell, ExxonMobil, Total, PGNiG) sull'esplorazione in contesti di catena e caratterizzazione di reservoir carbonatici fratturati.

Principali competenze tecniche:

- Rilevamento geologico-strutturale a scala regionale (remote sensing) e dell'affioramento attraverso metodi analitici per la ricostruzione di modelli cinematici e modelli geologici 3D;
- Abilità nel capire e ricostruire l'evoluzione tettonica di deformazioni complesse in diversi regime tettonici attraverso l'integrazione di dati di geologica di superficie e di sottosuolo con applicazione ragionata dei fondamenti dell'esplorazione petrolifera;
- Interpretazione sismica di dati 2D e 3D con analisi di attributi sismici per la mappatura e ricostruzione di modelli di sottosuolo in regimi deformativi complessi;
- Interpretazione, analisi e correlazione di dati di pozzo finalizzata all'interpretazione di dati sismici e modellazione statica di reservoirs;
- Costruzione di modelli strutturali 3D con sviluppo di workflow avanzati in modellazione strutturale, analisi deformativa e cinematica, costruzione di sezioni geologiche bilanciate e retrodeformazione in 3D;
- Caratterizzazione in affioramento e in sottosuolo di sistemi di faglie e fratture con generazione di modelli discreti di fratturazione (DFN) multi-scala e muti-scenario;
- Utilizzo professionale delle piattaforme: Schlumberger Petrel E&P Software Platform, IHS Kingdom Suite™, dGB Earth Sciences OpendTect Pro™, Petroleum Experts MOVE™ e ESRI ArcGIS®.

Esperienza a scala globale: Guatemala (Bacino del Peten), Colombia (Magdalena Basin), Albania (Albanidi), Croatia (Dinaridi), Poland (eastern Carpathians), Georgia (Bacino del Kura-Kartli), Norway (Mare di Barents), Switzerland (Molasse Basin), Italy (Appennino Centro-Meridionale e Bacino Adriatico), Iraqi Kurdistan (Zagros), Spain (Bay of Biscay) e Kazakhstan (Precaspian Basin).

G.E.Plan Consulting S.r.l., Ferrara*(Giugno-Settembre 2015)***Geologo di Esplorazione - Internship**

Interpretazione geologico-strutturale regionale di profili sismici a riflessione per la ricostruzione degli stili deformativi e valutazione del loro impatto sull'esplorazione di idrocarburi nelle zone High e Low Folded della catena degli Zagros nella regione del Kurdistan (NE Iraq).

Geology and Petroleum Geology Department, University of Aberdeen, Scozia, UK*(Marzo-Luglio 2014)***Visiting PhD**

Periodo di Visiting nell'ambito del Dottorato di Ricerca.

Dipartimento di Scienze della Terra, Università degli Studi "G. d'Annunzio" di Chieti-Pescara*(2011)***Collaboratore alla Ricerca**

Collaboratore alla Ricerca Tematica: "Riattivazione di elementi tettonici trasversali nella catena Appenninica, nel foreland Adriatico e nell'Atlas Marocchino" nell'ambito del progetto PRIN 2008.

FORMAZIONE E TITOLI

Abilitazione Scientifica Nazionale (ASN) a Professore Universitario di II Fascia*(Novembre 2020)*

Settore concorsuale 04/A2 - Geologia Strutturale, Geologia Stratigrafica, Sedimentologia e Paleontologia
Bando D.D. 2175/2018

Ph.D. (Doctor Europaeus) in 'Geologia ed Evoluzione delle Litosfera'*(Aprile 2015)*

Dipartimento di Ingegneria e Geologia, Università degli Studi "G. d'Annunzio" di Chieti-Pescara

Tesi: "Styles and tectonic significance of inversion structures within thrust belt-foreland systems: an Apennine-Adriatic perspective, central Italy"

Giudizio finale: *Special mention 'Excellent'***Laurea Specialistica in Scienze Geologiche (cum laude)***(Aprile 2011)*

Curriculum in "Geologia Strutturale e Geodinamica della Terra e dei Pianeti"

Università degli Studi "G. d'Annunzio" di Chieti-Pescara

Tesi: "Associazioni strutturali lungo il lineamento trasversale Sangro-Volturno (Appennino Centro-Meridionale) e nella Dorsale Medio-Adriatica"

Programma LLP Erasmus*(Gennaio-Maggio 2010)*

University College of London (UCL), Londra, UK

GEOL2027 Structural Geology and Tectonics

GEOL1012 Surface Processes

GEOL3011 Geosciences Report: "The Cretaceous sequences of the Subbetic zone (Betic Cordillera, Spain): description and correlation with the Umbria Marche succession (Central Apennines, Italy)"

Collaborazione con il Prof. G. Roberts (Birkbeck University) nell'ambito della ricerca tematica sulla fagliazione estensionale attiva in Appennino Centrale

Laurea Triennale in Scienze Geologiche (cum laude)*(Ottobre 2008)*

Università degli Studi "G. d'Annunzio" di Chieti-Pescara

Tesi: "Studio geologico-strutturale del lineamento Sangro-Volturno nel settore della Maiella (Appennino abruzzese-molisano, Italia centrale)"



Corsi di Formazione Professionale

- Marzo 2020: *'Sequence Stratigraphy – Advanced Concepts & Applications'* istruttore: Dr. Vitor Abreu (ACT Geosciences)
- Aprile-Giugno 2019: *'Reservoir Geomechanics' Stanford online course*; istruttore: Dr. M. d. Zoback
- 11-13 July 2016: *'Looking at basins with an exploration eye'* presso GEPlan Consulting; istruttore: Chris Pullan (CP Exploration)
- 13-14 Aprile 2016: *'Reservoir Engineering for Petroleum Geologists'* presso GEPlan Consulting; istruttore: Richard G. Green (AleAnna Europe);
- Maggio-Giugno 2015: *'MOOC Oil & Gas Achievement Certificate'* IFP School-Total;
- 10-12 Giugno 2014: *'Basin evolution, depositional systems and petroleum systems in the Central Mediterranean'* presso la University of Aberdeen; istruttore: Prof. R. Maniscalco (University of Catania);
- 22-24 Settembre 2014: *'Intraplate Tectonics and Sedimentary Basin Dynamics: Mild Inversion to Intraplate Orogenesis'* presso l'Università degli Studi del Sannio; istruttore Prof. Rendall Stephenson (University of Aberdeen);
- 9 Settembre 2014: *'Subsurface Geological Data integration in the E&P workflow'* ENI E&P;
- 17-19 Marzo 2014: *'Structural-stratigraphic interpretation of seismic data in sedimentary basins'* presso l'Università degli Studi di Catania; istruttore: Prof. R.W.H. Butler (University of Aberdeen);
- 24-26 Settembre 2012: *'Formation and deformation of sedimentary basins: From structural interpretation of seismic profiles to integrated forward kinematic and thermal basin modelling'* presso l'Università degli Studi di Roma TRE; istruttore: Prof. F. Roure (IFPEN);
- 15-17 May 2012: *'Continental Tectonics'* l'Università degli Studi di Roma TRE; istruttore: Prof. L. Jolivet (Université d'Orléans);
- 12-16 September 2011: *'Seismic Structures: Interpretation and 2D/3D Model Building and Validation'* l'Università degli Studi di Pavia; istruttore: Dr. Claudio Turrini (CT Consulting);
- 18-20 May 2011: *'Deformation of the Continental Lithosphere'* l'Università degli Studi di Roma TRE; istruttore: Prof. J.P. Brun (Université de Rennes 1).

ESPERIENZA DIDATTICA

Co-relatore e Tutor

(2016-2020)

G.E.Plan Consulting S.r.l.

Co-relatore di Tesi di Master di studenti della Royal Holloway, University of London e Tutor scientifico nell'ambito del tirocinio formativo degli studenti dell'Università degli Studi di Ferrara.

Seminari ad Invito

(2013-2020)

- *"Caratterizzazione e Modellazione di Reservoir Carbonatici Fratturati"* Dipartimento di Ingegneria e Geologia, Università degli Studi "G. d'Annunzio" di Chieti-Pescara (21 Maggio 2020);
- *"Structural Geology Applied to HC Exploration"* Dipartimento di Ingegneria e Geologia, Università degli Studi "G. d'Annunzio" di Chieti-Pescara (4 Giugno 2018);
- *"Characterisation of Fractured Carbonate Reservoirs"* Dipartimento di Ingegneria e Geologia, Università degli Studi "G. d'Annunzio" di Chieti-Pescara (3 Giugno 2018);
- *"Styles of compressional deformation and inversion tectonics within foreland fold-and-thrust belts: Examples from the Apennines of Italy"* University of Aberdeen (13 Maggio 2014);
- *"Seismic Expression of Structures"* Dipartimento di Ingegneria e Geologia, Università degli Studi "G. d'Annunzio" di Chieti-Pescara (27 Maggio 2013).

Culture della Materia

(Gennaio 2014)

Dipartimento di Ingegneria e Geologia, Università degli Studi "G. d'Annunzio" di Chieti-Pescara

Culture della materia per il corso di *"Geologia Strutturale e Geomeccanica"* nell'ambito della Laurea Magistrale in Scienze e Tecnologie Geologiche e per il corso di *"Geologia 2"* nell'ambito della Laurea Triennale in Scienze Geologiche.

Supporto alla Didattica

(Marzo-Giugno 2014)

Geology and Petroleum Geology Department, University of Aberdeen, Scozia, UK

Attività di supporto alla didattica per l'attività formativa di campo Inchnadamph Field Trip relativa ai corsi di "Field and Mapping Techniques" e "Structural Geology and Tectonics".

Supporto alla Didattica

(2012-2014)

Dipartimento di Ingegneria e Geologia, Università degli Studi "G. d'Annunzio" di Chieti-Pescara

Attività di supporto alla didattica per l'insegnamento di Geologia Strutturale e Geomeccanica e supporto per le attività formative di campo relative all'insegnamento di Geologia 2.

Supporto alla Didattica

(Luglio-Agosto 2010)

Dipartimento di Scienze della Terra, Università degli Studi "G. d'Annunzio" di Chieti-Pescara

Conferimento di Assegno per attività di tutoraggio per gli insegnamenti di Geologia 2, Rilevamento Geologico ed Interpretazione Sismica.

Supporto alla Didattica

(Ottobre-Novembre 2009)

Dipartimento di Scienze della Terra, Università degli Studi "G. d'Annunzio" di Chieti-Pescara

Conferimento di Assegno per attività di tutoraggio per gli insegnamenti di Geologia 2, Rilevamento Geologico ed Interpretazione Sismica.

PARTECIPAZIONE A GRUPPI DI RICERCA

- 2012 - Partecipazione al progetto di ricerca di Ateneo (Ex 60%) presso l'Università degli Studi "G. d'Annunzio" di Chieti-Pescara dal titolo: "Caratterizzazione geologico-strutturale e geomeccanica delle strutture frontali della catena appenninica e del suo avampaese". Responsabile: Prof. F. Calamita
- 2011 - Partecipazione come borsista e collaboratore al progetto PRIN 2008: "Strutture trasversali nella catena Appenninica centro-meridionale e nell'avampaese Adriatico". Responsabile: Prof. F. Calamita

PREMI E FELLOWSHIPS

- Tesi di Dottorato premiata con il "Gustavo Sclocchi" Thesis Award 2015 promosso congiuntamente dalle associazioni EAGE (European Association of Geoscientists and Engineers), SPE (Society of Petroleum Engineers – Italian Section) e ASSOMINERARIA (Italian Petroleum and Mining Industry Association – Hydrocarbon and Geothermal Resources Sector). Il premio riconosce le migliori tesi nell'ambito delle Geoscienze e dell'Ingegneria Petrolifera.
- Ph.D. Fellowship presso l'Università degli Studi "G. d'Annunzio" di Chieti-Pescara (2012-2014)
- EAGE Travel Grant per la partecipazione al 76th EAGE Conference & Exhibition incorporating SPE EUROPEC 2012 ad Amsterdam (2014)
- ENI-SGI Fellowship per la partecipazione al convegno FIST Geoitalia a Pisa (2013)
- EAGE Travel Grant for participating at the 74th EAGE Conference & Exhibition incorporating SPE EUROPEC a Copenhagen (2012)
- Lifelong Learning Programme Erasmus Fellowship presso la University College of London (2010)

ATTIVITÀ A CONVEGNI

- Membro del comitato scientifico del convegno internazionale AAPG International Conference & Exhibition 2020, Madrid.
- Relazione ad invito al workshop internazionale AAPG Let's Connect Series "Exploration Success" con un intervento dal titolo: "Tackling Challenges in Characterizing and Modelling Fractured Carbonate Reservoirs in Old Oil Fields: A Case From the Southern Apennine Hydrocarbon Province"



- Co-chair (Pace P., Hamilton, M.) della sessione "Outside Europe" del convegno internazionale AAPG Europe Regional Conference 2020 "The Last 50 Years of Exploration in Europe and the Mediterranean: Lessons Learned for Future E&P Efforts", Atene
- Co-chair (Di Cuia R., Pace P.) della sessione "New Exploration Opportunities and Frontiers" del convegno internazionale AAPG Geoscience Technology Workshop 2019 "Exploration and Development of Siliciclastic and Carbonate Reservoirs in the Eastern Mediterranean", Tel Aviv.

ATTIVITÀ DI EDITORE E REVISORE

- Guest Editor della rivista *Geosciences* (ISSN 2076-3263; CODEN: GBSEDA) nell'ambito della Special Issue "*Seismotectonics, Active Deformation, and Structure of the Crust*" (https://www.mdpi.com/journal/geosciences/special_issues/crust#editors) rivista indicizzata su WoS e Scopus e diffusa a livello internazionale.
- Attività di revisore scientifico per le riviste: *Tectonophysics*, *Journal of Geodynamics*, *Journal of African Earth Sciences*, *Geological society of London Special Publications*, *Journal of Structural Geology*.

LINGUE

- Italiano: madrelingua
- Inglese: avanzato (scritto e orale)
 - B1 Level Certificate: "Ud'A for your English" course
 - Erasmus Intensive Language Course
- Francese: base

ASSOCIAZIONI PROFESSIONALI

Membro delle seguenti associazioni professionali: Gruppo Italiano di Geologia Strutturale (GIGS); *Geological Society of London* (GSL), *Tectonic Studies Group* (TSG); *American Association of Petroleum Geologists* (AAPG), *Petroleum Exploration Society of Great Britain* (PESGB).

PUBBLICAZIONI SCIENTIFICHE

Pubblicazioni in riviste internazionali peer-reviewed:

1. Calamita F., Pace P., Scisciani V., Properzi F. & Francioni M. 2021. Dinaric up-thrusts in the Pliocene evolution of the Central Apennines thrust belt of Italy: the Montagna dei Fiori structure. *Geological Magazine*, accepted for publication.
2. Pace P., Di Cuia R. & Mascolo V. 2020. Revitalising exploration and re-development of deep carbonate targets in the Southern Apennines thrust belt (Southern Italy) by integrating vintage data with modern structural concepts. *The Geological Society Special Publications: Fold and Thrust Belts: Structural Style, Evolution and Exploration*, 490, 221-240, <https://doi.org/10.1144/SP490-2019-28>.
3. Scisciani V., Patruno S., Tavarnelli E., Calamita F., Pace P. & Iacopini D. 2019. Multi-phase reactivations and inversions of Paleozoic-Mesozoic extensional basins during the 566 Wilson Cycle: case studies from the North Sea (UK) and Northern Apennines (Italy). In: Wilson, W. R., Houseman, G. A., McCaffrey, K. J. W., Doré, A. G. & Buiter, S. J. H. (Eds), *Fifty Years of the Wilson Cycle Concept in Plate Tectonics*. Geological Society, London, Special Publication, 470, 205-243, doi: 10.1144/SP470-2017-232.
4. Francioni M., Pace P., Vitulli M., Sciarra N. & Calamita, F. 2019. Distribution of joints in the hinge-line culmination of foreland-verging overturned anticlines: an example from the Montagna dei Fiori structure in Central Apennines of Italy. *Geological Magazine*, 156, 1445-1454, doi: 10.1017/S0016756819000050.
5. Calamita F., Di Domenico A. & Pace P. 2017. Macro- and meso-scale structural criteria for identifying pre-thrusting normal faults within foreland fold-and-thrust belts: Insights from the Central-Northern Apennines (Italy). *Terra Nova*, 30, 50-62, doi: 10.1111/ter.12307.



6. **Pace P.**, Pasqui V., Tavarnelli E. & Calamita F. 2017. Foreland-directed gravitational collapse along curved thrust fronts: insights from a minor thrust-related shear zone in the Umbria Marche belt, central-northern Italy. *Geological Magazine*, 154(2), 381-392, doi: 10.1017/S0016756816000200.
7. **Pace P.**, Scisciani V., Calamita F., Butler R.W.H., Iacopini D., Esestime P. & Hodgson N. 2015. Inversion structures in a foreland domain: Seismic examples from the Italian Adriatic Sea. *Interpretation*, 3(4), SAA161-SAA176, doi:10.1190/INT-2015-0013.1.
8. **Pace P.** & Calamita F. 2015. Coalescence of fault-bend and fault-propagation folding in curved thrust systems: an insight from the Central Apennines, Italy. *Terra Nova*, 27, 175-183, doi: 10.1111/ter.12146.
9. **Pace P.**, Di Domenica, A. & Calamita F. 2014. Summit Low-Angle Faults in the Central Apennines of Italy: younger-on-older thrusts or rotated normal faults? Constraints for defining the tectonic style of thrust belts. *Tectonics*, 33, doi: 10.1002/2013TC003385.
10. **Pace P.** & Calamita F. 2014. Push-up inversion structures vs. fault-bend reactivation anticlines along oblique thrust ramps: examples from the Apennines fold-and-thrust belt (Italy). *Journal of the Geological Society*, 171, 227-238, doi: 10.1144/jgs2013-053.
11. Scisciani V., Agostini S., Calamita F., **Pace P.**, Cilli A., Giori I. & Paltrinieri W. 2014. Positive inversion tectonics in foreland fold-and-thrust belts: A reappraisal of the Umbria-Marche Northern Apennines (Central Italy) by integrating geological and geophysical data. *Tectonophysics*, 637, 218-237, doi:10.1016/j.tecto.2014.10.010.
12. Satolli S., **Pace P.**, Viandante M.G. & Calamita F. 2014. Lateral variations in tectonic style across cross-strike discontinuities: an example from the Central Apennines belt (Italy). *International Journal of Earth Sciences*, 103, 2301-2313, doi: 10.1007/s00531-014-1052-3.
13. Calamita F., **Pace P.** & Satolli S. 2012. Coexistence of fault-propagation and fault-bend folding in curve-shaped foreland fold-and-thrust belts: examples from the Northern Apennines (Italy). *Terra Nova*, 24(5), 396-406, doi: 10.1111/j.1365-3121.2012.01079.x.
14. Calamita F., Satolli S., Scisciani V., Esestime P. & **Pace P.** 2011. Contrasting styles of fault reactivation in curved orogenic belts: Examples from the Central Apennines (Italy). *GSA Bulletin*, 123(5/6), 1097-1111, doi: 10.1130/B30276.1.

Capitoli e contributi in volumi speciali e libri:

1. Tavarnelli E., Scisciani V., Patruno S., Calamita F., **Pace P.** & Iacopini D. 2019. The role of structural inheritance in the evolution of fold-and-thrust belts: Insights from the Umbria-Marche Apennines, Italy. Italy, in Koeberl, C., and Bice, D.M., eds., *250 Million Years of Earth History in Central Italy: Celebrating 25 Years of the Geological Observatory of Coldigioco: Geological Society of America Special Paper 542*, doi: 10.1130/2019.2542(10).
2. **Pace P.**, 2018. Clara Inversion Anticline, Adriatic Sea, Italy. In: *Atlas of Structural Geological Interpretation on Seismic Images*, edited by Achyuta Ayan Misra and Soumyajit Mukherjee, Wiley Blackwell, ISBN: 978-1-119-15832-5.
3. **Pace P.**, 2018. Emma Inversion Structure, Adriatic Sea, Italy. In: *Atlas of Structural Geological Interpretation on Seismic Images*, edited by Achyuta Ayan Misra and Soumyajit Mukherjee, Wiley Blackwell, ISBN: 978-1-119-15832-5.
4. **Pace P.**, 2018. Inversion in the Umiat Basin (Part 1) National Petroleum Reserve Alaska (NPRA), North Slope, Alaska. In: *Atlas of Structural Geological Interpretation on Seismic Images*, edited by Achyuta Ayan Misra and Soumyajit Mukherjee, Wiley Blackwell, ISBN: 978-1-119-15832-5.
5. **Pace P.**, 2018. Inversion in the Umiat Basin (Part 2) National Petroleum Reserve Alaska (NPRA), North Slope, Alaska. In: *Atlas of Structural Geological Interpretation on Seismic Images*, edited by Achyuta Ayan Misra and Soumyajit Mukherjee, Wiley Blackwell, ISBN: 978-1-119-15832-5.
6. **Pace P.**, Calamita, F. & Tavarnelli, E. 2015. Brittle-ductile shear zones along inversion-related frontal and oblique thrust ramps: Insights from the Central-Northern Apennines curved thrust system (Italy). In: Mukherjee, S. & Mulchrone, K. F. (ed) *Ductile Shear Zones: From Micro- to Macro-scales*. Wiley-Blackwell, doi: 10.1002/9781118844953.ch8.



7. **Pace P.** 2015. Contributor to chapters 1 and 3 in the Atlas of Structural Geology edited by Mukherjee, S. Elsevier, ISBN: 9780124202061.

Riassunti estesi e contributi in atti di convegno di conferenze nazionali e internazionali con presentazioni orali o poster:

1. **Pace P.**, Di Cuia R., Bagno, I. & Primera A. 2021. Fracture network modelling in a carbonate reservoir of an old oil field: re-development or moving towards energy transition?. TSG Annual Meeting
2. Borello S., **Pace P.**, Battara E., Ricciato A., Janiashvili A., Alania V. & Enukidze O. 2020. Reservoir characterisation and petrophysical properties analysis of Cenozoic siliciclastic sediments in the Kura Basin to understand porosity trends and fluid circulations within the reservoirs (onshore Georgia). BSRG Annual Meeting.
3. **Pace P.**, Di Cuia R. & Treen J. 2020. Building a Discrete Fracture Network Model from Vintage Data in an Old Oil Field: a Case From the Southern Apennine Hydrocarbon Province. AAPG ERC, Athens.
4. **Pace P.**, Borello S., Riva A., Goddard P., Jansson G. & Niall S. 2020. Surface Geology as a Driver for the Interpretation of 2D Seismic Data in Fold-and-Thrust Belts: The Southern Albanides Case. AAPG ERC, Athens.
5. **Pace P.**, Riva A., Ricciato A., Tevzadze R., Tevzadze N., Janiashvili A., Sanishvili A., Alania V. & Enukidze O. 2020. Sub-Thrust Exploration Potential of the Kura-Kartli Foreland Thrust Belt, Onshore Central Georgia. AAPG ERC, Athens.
6. Ricciato A., **Pace P.**, Riva A., Battara E. & Borello S. 2020. A Virtual Field Trip from the Apulian Platform in Italy to the Kruja Platform in Albania. AAPG ERC, Athens.
7. Riva A., **Pace P.**, Battara E. & Ricciato A. 2020. Karst in Seismic: Hard Work to Extract What?. AAPG ERC, Athens.
8. Riva A., Battara E., Ricciato A. & **Pace P.** 2020. Lower Cretaceous Apulian and Adriatic platforms margins: analogues for subsurface systems in the Mediterranean Sea. AAPG ERC, Athens.
9. Remaud A., Di Cuia R. & **Pace P.** 2020. Unlocking Exploration Potential of the Fractured Basement Play in the North Sea. AAPG ERC, Athens.
10. **Pace P.**, Ricciato A., Riva A., Tevzadze R., Tevzadze N., Janiashvili A., Sanishvili A., Alania V. & Enukidze O. 2019. Renewed Hydrocarbon Prospectivity in the Kura-Kartli Foreland Basin, Onshore Central Georgia. AAPG GTW, Batumi.
11. **Pace P.**, Ricciato A., Borello S., Battara E., Ferretto P., Tevzadze R., Tevzadze N., Janiashvili A., Sanishvili A., Alania V. & Enukidze O. 2019. Field-based Characterisation of Reservoir Units in the Kura-Kartli Foreland Basin, Central Georgia. AAPG GTW, Batumi.
12. Enukidze O., Beridze T., Blackburn G., Alania V., **Pace P.**, Siraze M. & Tevzadze N. 2019. New insights into Middle Eocene sedimentary basin and hydrocarbon reservoir architecture in the eastern Achara-Trialeti Fold and Thrust belt, Georgia. AAPG GTW, Batumi.
13. **Pace P.**, Riva A., Ricciato A., Tevzadze R., Janiashvili A., Sanishvili A., Alania V. & Enukidze O. 2019. The Control of Pre-Existing Faults on the Development of Thrust-Related Folds in the Kura Foreland Fold-and-Thrust Belt (Norio License Block, Onshore Georgia). AAPG ERC, Vienna.
14. **Pace P.**, Riva A., Ricciato A. & Battara E. 2019. The impact of evaporites on the deformation styles and hydrocarbon prospectivity in the circum-Adriatic region. AAPG GTW, Krakow.
15. Marchetti A., Riva A., Ricciato A., Borello S. & **Pace P.** 2019. Ultra-deep geothermics in the Po plain: a preliminary study on the Malossa area. AAPG European Region, 3rd Hydrocarbon Geothermal Cross Over Technology Workshop, Vienna.
16. Riva A., Battara E., Ricciato A., **Pace P.**, Ferretto P. and Borello S. 2019. Petroleum systems of the Mediterranean region: relationships with the heat flow patterns. 81st EAGE Conference and Exhibition, London.
17. **Pace P.**, Di Cuia R. & Mascolo V. 2019. Re-developing old oil Fields in Tight Carbonate Reservoirs: Insights for Discrete Fracture Network Modelling. AAPG GTW - Exploration and Development of Siliciclastic and Carbonate Reservoirs in the Eastern Mediterranean, Tel Aviv.
18. **Pace P.** & Angelo R. 2019. Basin Inversion in the Central and Eastern Mediterranean: Structures from the Adriatic and insight for exploration in the Levantine Basin. AAPG GTW - Exploration and Development of Siliciclastic and Carbonate Reservoirs in the Eastern Mediterranean, Tel Aviv.
19. **Pace P.**, Di Cuia R., Riva A., Battara E., Borello S. & Ferretto P. 2019. Impact of Deformation Bands and Discrete Fractures on Carbonate Reservoirs. AAPG GTW - Exploration and Development of Siliciclastic and Carbonate Reservoirs in the Eastern Mediterranean, Tel Aviv.



20. Battara E., Riva A., **Pace P.** & Ricciato A. 2019. Cretaceous Shallow Water Limestone Reservoirs and Possible Analogues in Eastern and Central Mediterranean. AAPG GTW - Exploration and Development of Siliciclastic and Carbonate Reservoirs in the Eastern Mediterranean, Tel Aviv.
21. Battara E., Riva A., Ricciato A. & **Pace P.** 2019. Miocene Shallow Water Carbonates and Buildups in Eastern Mediterranean: a Summary. AAPG GTW - Exploration and Development of Siliciclastic and Carbonate Reservoirs in the Eastern Mediterranean, Tel Aviv.
22. Angelo R., Riva A. & **Pace P.** 2019. Karst Evolution, Development and Interpretation in Carbonate Reservoirs and Impact on Fluid Flow Circulation in Reservoir Modelling. AAPG GTW - Exploration and Development of Siliciclastic and Carbonate Reservoirs in the Eastern Mediterranean, Tel Aviv.
23. Angelo R., **Pace P.**, Di Cuia R., Mascolo V. & Borello S. 2019. Characterizing Fracture Networks in Tight Carbonates of the Tethyan realm: Lessons Learned and Insights for Handling Fractured Reservoirs of the Eastern Mediterranean. AAPG GTW - Exploration and Development of Siliciclastic and Carbonate Reservoirs in the Eastern Mediterranean, Tel Aviv.
24. Riva A., Battara E., Ricciato A., **Pace P.** & Morabito C. 2019. The Kruja platform in Albania: characteristics and prospectivity. AAPG GTW - Exploration and Development of Siliciclastic and Carbonate Reservoirs in the Eastern Mediterranean, Tel Aviv.
25. Riva A., Battara E., Ricciato A., **Pace P.** & Morabito C. 2019. The southeastern margin of the Apulian Platform: where and when? AAPG GTW - Exploration and Development of Siliciclastic and Carbonate Reservoirs in the Eastern Mediterranean, Tel Aviv.
26. Scisciani V., Tavarnelli E., **Pace P.**, Patruno S., Iacopini D. & Calamita F. 2019. Twenty years of progress in studying inversion tectonics in the Northern Apennines and Adriatic foreland, Italy. Geophysical Research Abstracts, 21, EGU2019-9001.
27. **Pace P.**, Battara E., Riva A., Borello S., Ferretto P. & Di Cuia R. 2018. The Matera Carbonate Structural High: An Outcrop Analogue for Hydrocarbon Plays in the Mediterranean Region. EAGE Eastern Mediterranean Workshop, Malta.
28. Battara E., Riva A. & **Pace P.** 2018. Isolated Cretaceous carbonate platforms of the Mediterranean: the example of Bagnolo. EAGE Eastern Mediterranean Workshop, Malta.
29. **Pace P.** & Di Cuia R. 2018. Contrasting deformation mechanisms within porous and tight carbonate rocks: examples from an outcrop analogue and insights on reservoir properties. The Geology of Fractured Reservoirs, Geological Society of London, UK.
30. Di Cuia R. & **Pace P.** 2018. Old oil discoveries in tight fractured carbonates with limited fracture information: how to build a Discrete Fracture Network Model to help the appraisal strategy. The Geology of Fractured Reservoirs, Geological Society of London, UK.
31. **Pace P.**, Di Cuia R., Riva A., Borello S., MacDonald A., Nørgård J.P. & Kristensen T. 2018. Seismic attribute characterisation of the fault and fracture network within carbonate reservoirs in a sector of the Loppa High (SW Barents Sea). Seismic Characterisation of Carbonate Platforms and Reservoirs, Geological Society of London, UK.
32. Riva A., Battara E., **Pace P.** & Ricciato, A. 2018. Structure and evolution of two Miocene carbonate platforms, subsurface Offshore NW Australia. Seismic Characterisation of Carbonate Platforms and Reservoirs, Geological Society of London, UK.
33. Mascolo V., Di Cuia R., Lecomte I. & **Pace P.** 2018. Synthetic seismic modelling of the platform-to-basin transition in the Maiella Mt. (Central Apennines): an analogue for subsurface Mesozoic carbonate targets. Seismic Characterisation of Carbonate Platforms and Reservoirs, Geological Society of London, UK.
34. **Pace P.**, Di Cuia R., Riva A., Battara E. & Borello S. 2018. The Matera Carbonate Structural High (Southern Italy): an Outcrop Analogue for Subsurface Foreland Plays in the Mediterranean Region. AAPG GTW Alpine Folded Belts and Extensional Basins, Granada, Spain.
35. Di Cuia R., **Pace P.**, & Treen J. 2018. Revitalising Exploration of Deep Carbonate Targets in the Southern Apennines Thrust Belt of Italy. AAPG GTW Alpine Folded Belts and Extensional Basins, Granada, Spain.
36. Riva A., **Pace P.**, Ricciato A., Battara E. & Di Cuia R. 2018. The evolution of the Peri-Adriatic Thrust belts and their impact on petroleum systems. AAPG GTW Alpine Folded Belts and Extensional Basins, Granada, Spain.
37. Battara E., Riva A., **Pace P.** & Di Cuia R. 2018. Cretaceous reservoirs of the Eastern Mediterranean: hunting for analogues in the Mediterranean Region. Eastern Mediterranean – An emerging major petroleum province, Geological Society of London, UK.



38. **Pace P.**, Di Cuia R. & Treen J. 2017. Integration of different vintage data for revitalising exploration of proven and prospective plays in the Apulian thrust belt of southern Italy. *Fold and Thrust Belts: Structural style, evolution and exploration*, Geological Society of London, UK.
39. **Pace P.**, Calamita F. & Tavarnelli E. 2017. Along-strike variation of thrust-related folds in the curved thrust systems of the Central-Northern Apennines of Italy. *Fold and Thrust Belts: Structural style, evolution and exploration*, Geological Society of London, UK.
40. **Pace P.**, Pasqui V., Tavarnelli E. & Calamita, F. 2017. Inferring foreland-directed gravitational collapse along curved thrust fronts from the analysis of a minor thrust-related shear zone in the Umbria-Marche thrust belt (Central-Northern Italy). *Fold and Thrust Belts: Structural style, evolution and exploration*, Geological Society of London, UK.
41. Di Cuia R. & **Pace P.** 2017. Styles of compressional deformation and tectonic inheritance in the Kurdistan Zagros Thrust Belt of NE Iraq. *Fold and Thrust Belts: Structural style, evolution and exploration*, Geological Society of London, UK.
42. Di Cuia R., Borello S. & **Pace P.** 2017. Are fracture networks easy to predict in the subsurface? The lesson learned from a discovery in Northern Iraq (Kurdistan Region). *Fold and Thrust Belts: Structural style, evolution and exploration*, Geological Society of London, UK.
43. Casabianca D., Auzemery A., Barrier A., Lecardez A., Di Cuia R., Borello S., Ricciato A. & **Pace P.** 2017. The Maiella Anticline Cretaceous platform margin (Italian Apennines) and insights for Mediterranean exploration. *Fold and Thrust Belts: Structural style, evolution and exploration*, Geological Society of London, UK.
44. **Pace P.**, Scisciani V., Calamita F., Butler R.W.H., Iacopini D. & Paolo E. 2017. Testing thin-and thick-skinned tectonics ahead of foreland thrust belts: an application to the deformed Adriatic foreland of Italy. *Fold and Thrust Belts: Structural style, evolution and exploration*, Geological Society of London, UK.
45. Di Cuia R., Marian M., Bitonte R., Pace P. & Riva A. 2017. Revitalising prospectivity in the Bay of Biscay. AAPG-SEG International Conference & Exhibition 2017, London, UK.
46. Di Cuia R. & **Pace P.** 2017. Contrasting deformation mechanisms within porous and tight carbonate rocks: insights from the Matera high (southern Italy). AAPG-SEG International Conference & Exhibition 2017, London, UK.
47. Battara E., Riva A., Borello S., Ferretto P., Di Cuia R. & **Pace P.** 2017. Facies variability, depositional systems and fracture characteristics around a carbonate structural high: The Matera high (Southern Italy) as a tertiary analogue for subsurface systems in the Mediterranean Sea. International Meeting of Sedimentology, Toulouse, France.
48. **Pace P.** & Di Cuia R. 2017. Deformation and failure within vertically-coupled porous-tight carbonates: an example from the Matera High. GIGS Annual Meeting, Padova, Italy.
49. **Pace P.**, Calamita F., Scisciani V., Butler R.W.H., Iacopini D. & Tavarnelli E. 2017. Deformation styles and inversion tectonics in the Apennine-Adriatic thrust belt-foreland system (central-northern Italy). GIGS Annual Meeting, Padova, Italy.
50. Viet Son T., Riva A., Scarselli N., Di Cuia, R. & **Pace P.** 2017. Characterization of a paleokarst reservoir within a paleozoic carbonate platform through seismic volume attributes. 79th EAGE Conference & Exhibition incorporating SPE EUROPEC, Paris, France.
51. Di Cuia R., **Pace P.** & Riva A. 2017. Hydrocarbon discoveries and improvement of technologies - Examples from the Exploration in Italy. 79th EAGE Conference & Exhibition incorporating SPE EUROPEC, Paris, France.
52. **Pace P.** & Di Cuia R. 2017. Sealing vs non-sealing Fracture Networks within vertically coupled porous-tight Carbonates: clues from the Matera Horst (Southern Italy). AAPG Regional Conference, Larnaca, Cyprus.
53. Riva A., **Pace P.**, Di Cuia R. & Fink P. 2017. Re-evaluating the Nilde Oilfield (offshore Sicily): a Miocene carbonate reservoir in a submerged Central Mediterranean Thrust Belt. AAPG Regional Conference, Larnaca, Cyprus.
54. Cubitt C., **Pace P.**, Steiner-Luckabauer C. & Riva A. Can a fractured reservoir be characterised without BHI data? A carbonate field example from the Sicily Channel, Italy. AAPG Regional Conference, Larnaca, Cyprus.
55. Tran V. S., Scarselli N., Riva A., Di Cuia R. & **Pace P.** 2016. Evolution and karst development in a palaeozoic carbonate platform: a seismic interpretation approach. Petroleum Geoscience Research Collaboration Showcase, PETEX 2016, London.
56. Tavarnelli E., **Pace P.**, & Calamita F. 2016. Along-strike variations in curved thrust belts: examples from the central-northern Apennines of Italy. Geological Society of America Abstracts with Programs, 48-7, doi: 10.1130/abs/2016AM-284617.



57. **Pace P.**, Calamita F., Scisciani V., Tavarnelli E., Butler R.W.H. & Iacopini D. 2016. Tethyan heritage during orogenic development of the Apennine-Adriatic thrust belt foreland system, Central Italy. *Rend. Online Soc. Geol. It.*, 40, 191.
58. Satolli S., **Pace P.**, Viandante M.G. & Calamita F. 2016. Plio-Quaternary development of the Sangro-Volturno cross-strike discontinuity (Central Apennines, Italy). *Tend. Online Soc. Geol. It.*, 40, 200.
59. **Pace P.**, Calamita F., Scisciani V., Butler R.W.H., Iacopini D., Tavarnelli E. & Di Cuia R. 2016. Structural inheritance and tectonic inversion in foreland thrust belts: an Apennine-Adriatic perspective. Arthur Holmes Meeting 2016 - The Wilson Cycle: Plate Tectonics and Structural Inheritance During Continental Deformation, London.
60. Di Cuia R., **Pace P.**, Bitonte R. & Riva A. 2016. Hydrocarbon occurrences and deformation styles over the Zagros Thrust Belt: a focus on the Kurdistan (NE Iraq) and Lorestan (NW Iran) petroleum provinces. 77th EAGE Conference & Exhibition incorporating SPE EUROPEC, Vienna, Austria.
61. Bitonte R., Di Cuia R., **Pace P.** & Riva A. 2016. Deformation style and hydrocarbon occurrence: impact of the folding deformation on play distribution in Zagros Fold Thrust Belt High folded Zone. AAPG Regional European Conference, Bucarest, Romania.
62. **Pace P.** 2015. Styles and tectonic significance of inversion structures within the Apennine-Adriatic thrust belt-foreland system: implications for hydrocarbon prospectivity. *Rend. Online Soc. Geol. It.*, 37, 24.
63. Bitonte R., **Pace P.** & Di Cuia, R. 2015. The impact of cross-strike structures on hydrocarbon migration and accumulation: practical examples from Alpine fold-and-thrust belts. *Rend. Online Soc. Geol. It.*, 36, 16.
64. **Pace P.**, Scisciani V., Butler R.W.H., Iacopini D., Hodgson N., Esestime P. & Calamita, F. 2015. Seismic expression of positive inversion structures within a foreland domain: insights from the Central Adriatic Sea (Italy). TSG Annual Meeting, Edinburgh.
65. **Pace P.**, Pasqui V. Tavarnelli E. and Calamita, F. 2015. Inferring foreland-directed gravitational collapse from analysis of composite shear fabrics along regional thrust faults: a case from the Umbria-Marche Apennines, Italy. TSG Annual Meeting, Edinburgh.
66. **Pace P.**, Scisciani V., Margiotta D., Calamita F., Rowlands D., Hodgson N., & Esestime P. 2014. Inversion Structures in a Foreland Area – Seismic example from the Adriatic Sea-Italy. 76th EAGE Conference & Exhibition incorporating SPE EUROPEC, Amsterdam, The Netherlands, doi:10.3997/2214-4609.20141663.
67. **Pace P.** & Calamita F. 2014. Folded, Faulted and Reactivated Pre-Thrusting Normal Faults: Insights from the Central Apennines Thrust Belt (Italy). *Geometry and Growth of Normal Faults*, Geological Society of London.
68. **Pace P.** & Calamita F. 2014. Geometric characteristics of positive inversion structures within the Apennines carbonate foreland fold-and-thrust belt. AAPG Regional European Conference, Naples, Italy.
69. Calamita F., **Pace P.** & Tavarnelli E. 2013. Modes and timing of deformation along an oblique thrust ramp: constraints from a thrust shear zone (Central-Northern Apennines, Italy). *IX FIST Geoitalia 2013*, 5, 139-140.
70. **Pace P.**, Di Domenica A. & Calamita F. 2013. Low-angle pre-thrusting normal faults rotated within the forelimbs of thrust-related anticlines: implications for unravelling the tectonic style of the Central Apennine chain (Italy). *IX FIST Geoitalia 2013*, 5, 148.
71. **Pace P.** & Calamita F. 2013. Geometries of inversion structures along regional oblique thrust ramps: structures from the Apennines foreland fold-and-thrust belt. *IX FIST, Geoitalia 2013*, 5, 148.
72. **Pace P.** & Calamita F. 2013. Thrust-related Folds within Inversion Tectonics Dominated Areas - Structures from the Apennines Thrust Belt (Italy). 75th EAGE Conference & Exhibition incorporating SPE EUROPEC, London, United Kingdom, doi: 10.3997/2214-4609.20131135.
73. Scisciani V., **Pace P.**, Margiotta D., Calamita F., Rowlands D., Esestime P., Hodgson N. & Scaife G., 2013. Inspiring new prospectivity in the Italian Adriatic Sea. AAPG European Regional Conference, Barcelona, Spain.
74. **Pace P.**, Satolli S. & Calamita F. 2012. The control of mechanical stratigraphy and inversion tectonics on thrust-related folding along the curved Northern Apennines thrust front. *Rend. Online Soc. Geol. It.*, 22, 162-165.
75. **Pace P.**, Satolli S. & Calamita F. 2012. Along-strike variation of fault-related folding in a curve-shaped foreland fold-and-thrust belt: a case from the Northern Apennines. *Rend. Online Soc. Geol. It.*, 21, 44-46.
76. **Pace P.**, Scisciani V., Calamita F. & Paltrinieri W. 2012. Positive flower structures as reactivated normal faults along oblique thrust ramps: examples from the Apulian structures, Central-Southern Apennines. *Rend. Online Soc. Geol. It.*, 21, 47-49.
77. **Pace P.**, Scisciani V. & Calamita F. 2012. Structural inheritance in two circum-Mediterranean fold-and-thrust belts: Preliminary results from a comparison. *Rend. Online Soc. Geol. It.*, 21, 50-52.



78. **Pace P.**, Calamita F. & Scisciani V. 2012. Inversion Structures along Oblique Lineaments in the Apennine. 74th EAGE Conference & Exhibition incorporating SPE EUROPEC, Copenhagen, Denmark.
79. Satolli S., Scisciani V., Esestime P., **Pace P.** & Calamita F. 2011. Different styles of fault reactivation in the Central Apennines. Geophysical Research Abstracts, 13, EGU2011-11219, EGU General Assembly.
80. **Pace P.**, Scisciani V. & Calamita F. 2011. Transversal tectonic lineaments in the Central-Southern Apennines and in the Adriatic foreland (Mid-Adriatic ridge). VIII FIST Geoitalia 2011, 4.
81. **Pace P.**, Scisciani V. & Calamita F. 2011. Styles of Plio-Quaternary Positive Inversion Tectonics in the Central-Southern Apennines and in the Adriatic Foreland. Rend. Online Soc. Geol. It., 15, 88-91.
82. Scisciani V., Agostini S., Calamita F., Cilli A., Giori I., **Pace P.** & Paltrinieri W. 2010. The Neogene positive inversion of late Paleozoic-Triassic basins in the structural evolution of the Umbria-Marche carbonate mountain ridge (northern Apennines). Rend. Online Soc. Geol. It., 11, 350-351.
83. Scisciani V., Agostini S., Calamita F., Cilli A., Giori I., **Pace P.** & Paltrinieri W. 2010. The influence of pre-existing extensional structures on the Neogene evolution of the Northern Apennines foreland fold-and-thrust belt. Rend. Online Soc. Geol. It., 10, 125-128.
84. Calamita F., Esestime P., **Pace P.**, Satolli S. & Scisciani V. 2009. Short-cut anticlines VS. full inversion anticlines in the salient structures of the Central-Southern Apennines. VII FIST Geoitalia 2009, 3, 410.
85. Calamita F., Esestime P., **Pace P.**, Scisciani V. & Verna F. 2009. Transversal structures of the Central-Southern Apennines: The Sangro-Volturno Line. VII FIST Geoitalia 2009, 3, 181.
86. Calamita F., Esestime P., **Pace P.**, Paltrinieri W., Scisciani V. & Tavarnelli E. 2009. The Pliocene-Quaternary salient structures of the Central and Southern Apennine chain inherited from pre-thrusting normal faults. Rend. Online Soc. Geol. It., 5, 51-54.



Miller Zambrano

PERSONAL STATEMENT:

Miller Zambrano is a Geoscientist holding a PhD in Structural Geology (University of Camerino, Italy) and a Degree in Geophysical Engineering (Central University of Venezuela) with experience in petroleum exploration and academic research. Main work skills include exploration geophysics and structural geology with high interest for geothermal energy and CO2 sequestration.

EDUCATION:

2016 | **PhD Earth Sciences** | University of Camerino, Italy

- The research was focused on geological modelling and fluid flow in deformed porous and tight carbonates from the pore-scale to the seismic-scale through the integration of fracture modelling, field structural geology, fluid flow simulation, computational fluid dynamics.
- Erasmus Intern in the Heat and Mass Transfer Technological Center-Polytechnic University of Catalonia, Spain.

2008 | **Geophysicist Engineer** | Central University of Venezuela

- The dissertation (approved with honours) was focused on seismic interpretation in an area of the Maracaibo Basin. The work was integrated to an actual oil exploration project and considered for defining new prospects.
- Teaching assistance in near-surface seismic methods (2 semesters).

WORK EXPERIENCE:

Oct. 2017 – Current | **Researcher (fix-term contract)** | University of Camerino, Italy

- Research focused on (oil, geothermal) reservoirs characterization at different scale. At the microscale, I mainly study the 3D pore networks by using microCT data. At the macroscale, I conduct seismic interpretation integrated with well data analysis, generation of synthetic seismic, regional outcrop-based fracture analysis and modelling. I also contribute to near-surface geophysics surveys focused on hydrogeology evaluation.
- Teaching two courses in the master program (in English) Geofluids Reservoir and Seismic Data Interpretation. Supervisor of more than 10 master thesis students and trainees.

Dec. 2015 – Dec. 2016 | **Research Fellow** | University of Camerino, Italy

- The research was focused to applied computational fluid dynamics (Lattice-Boltzmann) simulation in deformed porous carbonates using high resolution X-ray tomographic images.

2008 – 2012 | **Exploration Geophysicist - Seismic Interpreter** | PDVSA (Venezuelan Oil Company)

- Responsible of evaluating and exploring new oil plays and prospects by implementing the interpretation of 2D and 3D seismic data (Offshore/Onshore) in different structural settings at the regional and prospect scales. Main activities were to generate structural maps and seismic attributes.

PERSONAL SKILLS:

- Experience working in international, multicultural, and multidisciplinary teams.
- Languages: **Spanish** (mother tongue), **English** (fluent), **Italian** (fluent).
- Seismic Interpretation and Fracture Modelling software (Petrel, Move).
- Basic program skills (Matlab, C++, R, Python)
- Driving licence: B


ACADEMIC ACTIVITIES:

- Author of 18 scientific articles (6 as main author), citations 383, H-index 10. A full list of publications in Scopus (ID: 55974536800; Orcid ID: 0000-0002-3963-8744).
- **Main Publications:**
 1. Zambrano, M., *et al.* (2021). Pore-scale dual-porosity and dual-permeability modeling in an exposed multi-facies porous carbonate reservoir. *Marine and Petroleum Geology*, 128, 105004.
 2. Zambrano, M., *et al.* (2019). Analysis of fracture roughness control on permeability using SFM and fluid flow simulations: Implications for carbonate reservoir characterization. *Geofluids*, 2019.
 3. Zambrano, M., *et al.* (2019). Implementation of dynamic neutron radiography and integrated X-ray and neutron tomography in porous carbonate reservoir rocks. *Frontiers in Earth Science*, 7, 329.
 4. Zambrano, M., *et al.* (2018). Fluid flow simulation and permeability computation in deformed porous carbonate grainstones. *Advances in Water Resources*, 115.
 5. Zambrano, M., *et al.* (2017). 3D Pore-network quantitative analysis in deformed carbonate grainstones. *Marine and Petroleum Geology*, 82.
 6. Zambrano, M., *et al.* (2016). Fracture properties analysis and discrete fracture network modelling of faulted tight limestones, Murge Plateau, Italy. *Italian Journal of Geosciences*, 135(1), 55-67.
 7. Riegel, H., *et al.* (2019). Petrophysical properties and microstructural analysis of faulted heterolithic packages: a case study from Miocene turbidite successions, Italy. *Geofluids*, 2019.
 8. Mendez, J. N., *et al.* (2019). Fracture characterization and modeling in karsted carbonate reservoirs: A case study in Tahe oilfield, Tarim Basin (western China). *Marine and Petroleum Geology*, 104104.
 9. Volatili, T., *et al.* (2019). From fracture analysis to flow simulations in fractured carbonates: The case study of the Roman Valley Quarry (Majella Mountain, Italy). *Marine and Petroleum Geology*, 100, 95-110.
 10. Panza, E., *et al.* (2016). Fracture stratigraphy and fluid flow properties of shallow-water, tight carbonates: the case study of the Murge Plateau (southern Italy). *Marine and Petroleum Geology*, 73, 350-370.
 11. Panza, E., *et al.* (2015). Structural architecture and Discrete Fracture Network modelling of layered fractured carbonates (Altamura Fm., Italy). *Italian Journal of Geosciences*, 134(3), 409-422.
 12. Antonellini, M., *et al.* (2014). Fluid flow numerical experiments of faulted porous carbonates, northwest Sicily (Italy). *Marine and Petroleum Geology*, 55, 186-201.
- **Journal reviewer:** AAPG Bulletin; Geofluids; Journal of Structural Geology; Geological Society of London; Journal of Imaging; Journal of Natural Gas Science & Engineering; Marine and Petroleum Geology; Minerals.
- **Grant proposal reviewer:** National Science Center (Funding scheme PRELUDIUM), Poland. 2019.

AWARDS:

- Winner of "Petroleum Geology Student Contest" (event sponsored by Shell Italia E&P), 27th November 2015. Matera, Italy. I presented some results of my PhD research: "Fault zones characterization and fluid flow numerical experiments in carbonates rocks".

Data: 09/06/2021



PROCEDURA PUBBLICA DI SELEZIONE PER L'ASSUNZIONE DI N. 1 RICERCATORE A TEMPO DETERMINATO, AI SENSI DELL'ART. 24 COMMA 3 LETT. B) DELLA LEGGE N. 240/2010, PER IL SETTORE CONCORSUALE 04/A2 "Geologia strutturale, geologia stratigrafica, sedimentologia e paleontologia" - SETTORE SCIENTIFICO-DISCIPLINARE GEO/03 "Geologia strutturale" - SCUOLA DI Scienze e Tecnologie UNIVERSITA' DEGLI STUDI DI CAMERINO, BANDITA CON D.R. PROT. N. 29532 DEL 29 aprile 2021, IL CUI AVVISO È STATO PUBBLICATO SULLA G.U. – IV° SERIE SPECIALE - N. 43 DEL 1° giugno 2021.

Giudizio analitico sui titoli, sul curriculum e sulla produzione scientifica del candidato:

1) CANDIDATO: Abdul Rashid MEMON

Titoli e curriculum

Descrizione

Il candidato ha una eccellente esperienza nella caratterizzazione e sviluppo di giacimenti petroliferi, nonché in diverse applicazioni correlate. Tuttavia, non ha conseguito il dottorato di ricerca e non ha esperienza nella didattica.

Indicare i titoli considerati per la valutazione: 1) b) d)

Produzione scientifica

Descrizione

La produzione scientifica è riferita a riassunti e brevi rapporti tecnici pubblicati in riviste per lo più non censite nei database internazionali (Scopus, Web of Science).

Indicare le pubblicazioni considerate per la valutazione: 1, 2, 3, 4 come da allegati forniti nella cartella "pubblicazioni".

GIUDIZI INDIVIDUALI

Commissario Prof. Emanuele TONDI:

Il candidato ha una esperienza notevole per quanto riguarda gli aspetti tecnici relativi al proprio profilo professionale; tuttavia, ha carenza di titoli specifici valutabili per la procedura oggetto della selezione.

Commissario Prof. Alessandro Maria MICHETTI:

Il candidato ha svolto una lunga ed eccellente attività nell'ambito della professione riferita all'ingegneria del petrolio. Il suo percorso professionale risulta deficitario per quanto riguarda i titoli accademici e la produzione scientifica.

Commissario Dott. Fabrizio AGOSTA:



Il candidato mostra un'ottima preparazione nell'ambito del suo profilo professionale. Ha svolto una lunga ed eccellente preparazione e attività tecniche, anche di gruppo. I titoli accademici e la produzione scientifica risultano tuttavia non appropriati per la procedura in oggetto.

GIUDIZIO COLLEGALE

(in merito alla produzione scientifica, formulare il giudizio circa il grado di creatività ed autonomia, come previsto da Human Resources Strategy for Researchers – art. 3 del Regolamento):

Il candidato ha sviluppato un eccellente percorso tecnico nell'ambito della ingegneria del petrolio. Le pubblicazioni presentate, anche se riferite a riassunti di congressi e relazioni tecniche, mostrano una buona creatività ed autonomia. Tuttavia, non ha conseguito titoli accademici e una produzione scientifica sufficiente per la procedura oggetto della valutazione.

2) CANDIDATO: Paolo PACE

Titoli e curriculum

Descrizione

Il candidato ha un'ottima esperienza professionale, avendo svolto attività presso società di servizio di geologia e geofisica. La sua formazione e i titoli presentati sono eccellenti, avendo il titolo di dottorato e l'Abilitazione Scientifica Nazionale (ASN) a Professore Universitario di II Fascia nel settore concorsuale della procedura oggetto della selezione. Per quanto riguarda lo svolgimento di attività didattica a livello universitario, il candidato è cultore della materia e ha svolto attività di supporto alla didattica ma non risulta essere stato titolare di insegnamenti specifici.

Indicare i titoli considerati per la valutazione: 1) a), b), c), d), e); 2) a) b)

Produzione scientifica

Descrizione

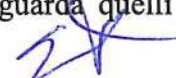
La produzione scientifica del candidato è eccellente. I lavori pubblicati sono su riviste scientifiche di qualità, in termini di IF, ed hanno ricevuto numerose citazioni, come testimoniato dal parametro Hindex = 11. Da una valutazione delle citazioni dei lavori pubblicati, emerge un numero di autocitazioni non trascurabile. Infatti, il fattore Hindex senza le autocitazioni scende a 7.

Indicare le pubblicazioni considerate per la valutazione: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12

GIUDIZI INDIVIDUALI

Commissario **Prof. Emanuele TONDI**:

La formazione e i titoli presentati dal candidato sono eccellenti, sia per quanto riguarda quelli



professionali che accademici. Il candidato ha un'ottima produzione scientifica e ha ottenuto l'Abilitazione Scientifica Nazionale (ASN) a Professore Universitario di II Fascia nel settore concorsuale della procedura oggetto della selezione.

Commissario Prof. Alessandro Maria MICHETTI:

Il candidato ha l'Abilitazione Scientifica Nazionale (ASN) a Professore Universitario di II Fascia nel settore 04/A2, a testimonianza dell'ottimo valore dei titoli conseguiti. Il candidato è cultore della materia e ha svolto attività di supporto alla didattica per diversi insegnamenti e presenta un'ottima produzione scientifica.

Commissario Dott. Fabrizio AGOSTA:

Il candidato presenta una esperienza professionale notevole, in particolare per quanto riguarda la ricostruzione ed interpretazione delle strutture del sottosuolo. Tali competenze sono altresì testimoniate dalla produzione scientifica in cui è maggiormente valutabile il suo contributo. I titoli sia professionali che accademici risultano di alto livello.

GIUDIZIO COLLEGALE

(in merito alla produzione scientifica, formulare il giudizio circa il grado di creatività ed autonomia, come previsto da Human Resources Strategy for Researchers – art. 3 del Regolamento):

La produzione scientifica del candidato risulta di alto valore per quanto riguarda la creatività ed emerge anche un ottimo grado di autonomia. Le pubblicazioni presentate risultano pubblicate su riviste di settore e ad alta diffusione internazionale, numerose le citazioni, anche se non sono trascurabili le autocitazioni. Ottimi i titoli acquisiti sia in campo professionale che accademico. Da segnalare il premio "Gustavo Sclocchi" di EAGE, SPE e ASSOMINERARIA e l'Abilitazione Scientifica Nazionale (ASN) a Professore Universitario di II Fascia nel settore concorsuale della procedura oggetto della selezione. Per quanto riguarda lo svolgimento di attività didattica a livello universitario, il candidato non risulta essere stato titolare di insegnamenti specifici.

3) CANDIDATO: Miller del Carmen ZAMBRANO CARDENAS

Titoli e curriculum

Descrizione

Il candidato ha titoli sia professionali che accademici eccellenti. In particolare, ha il titolo di dottorato, è stato titolare di insegnamenti alla laurea magistrale in Geologia ed è stato supervisore di numerose tesi di laurea. Ha conseguito l'Abilitazione Scientifica Nazionale (ASN) a Professore Universitario di II Fascia nel settore concorsuale della procedura oggetto della selezione. Anche la sua esperienza professionale è eccellente, avendo lavorato presso la società petrolifera venezuelana, nei temi inerenti alla procedura di valutazione in oggetto.

Indicare i titoli considerati per la valutazione: 1) a), b), c), d), e); 2) a) b)

Produzione scientifica



Descrizione

La produzione scientifica del candidato è eccellente. I lavori sono pubblicati su riviste scientifiche ad alta diffusione internazionale, con alto IF e numerose citazioni. L'Hindex è 11 e anche escludendo le autocitazioni il valore rimane pressoché invariato (10).

Indicare le pubblicazioni considerate per la valutazione: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12

GIUDIZI INDIVIDUALI

Commissario **Prof. Emanuele TONDI:**

Eccellente formazione professionale del candidato, che presenta anche titoli accademici rilevanti e ha ottenuto l'Abilitazione Scientifica Nazionale (ASN) di II Fascia nel settore 04/A2. La produzione scientifica è di alta qualità, numerosi lavori a primo nome dove emerge chiaramente il suo contributo, originalità ed autonomia nella ricerca.

Commissario **Prof. Alessandro Maria MICHETTI:**

Il candidato ha una eccellente produzione scientifica, con lavori pubblicati su riviste internazionali con alto IF. Il candidato ha l'Abilitazione Scientifica Nazionale (ASN) a Professore Universitario di II Fascia nel settore 04/A2. Notevoli anche i titoli professionali e accademici, essendo titolare di insegnamenti nella laurea magistrale in Geologia.

Commissario **Dott. Fabrizio AGOSTA:**

Il candidato presenta titoli professionali e accademici eccellenti. Titolare di insegnamenti specifici, ha supervisionato numerose tesi di laurea. Numerosi i lavori presentati a primo nome, dove è possibile valutare il suo contributo in maniera inequivocabile. Un Hindex elevato e numerose citazioni confermano la qualità della produzione scientifica del candidato.

GIUDIZIO COLLEGALE

(in merito alla produzione scientifica, formulare il giudizio circa il grado di creatività ed autonomia, come previsto da Human Resources Strategy for Researchers – art. 3 del Regolamento):

Il grado di creatività ed autonomia nella produzione scientifica del candidato è eccellente. Tale valutazione emerge dal fatto che molti dei lavori presentati sono a primo o secondo nome. Inoltre, il fattore Hindex = 11 e le numerose citazioni testimoniano la qualità delle pubblicazioni, anche escludendo le autocitazioni.

I titoli professionali e accademici sono altresì eccellenti. Si segnala il titolo del dottorato, la titolarità di insegnamenti alla laurea magistrale in geologia, l'Abilitazione Scientifica Nazionale (ASN) a Professore Universitario di II Fascia nel settore 04/A2e il conseguimento del premio "Petroleum Geology Student Contest" di Shell Italia E&P in occasione del quale il candidato ha presentato alcuni risultati del suo dottorato "Fault zones characterization and fluid flow numerical experiments in carbonates rocks".

