

**Father Name: Fazal-e-Wahid**

H.No: 1, Junaid Street, Bamkhel Market, Sethi Town Haji Camp, Peshawar.
Permanent Address: Gulshan-e-Uzair, P.O. Bamkhel, Tehsil and District Swabi,
 Khyber Pukhtunkhwa. Pakistan.

CNIC # 17301-9157123-7 | **D.O.B:** 22nd April, 1989

Phone (Res.) # +92-91-2263730 | **Cell #** +92-344-9025508

E-mail: awais.geo@uoswabi.edu.pk/awais.geo89@gmail.com | **Skype:** awaiskhann99

Marital Status: Single | **Languages Spoken:** Pashto, Urdu, English, and Persian.

Google Scholar: <https://scholar.google.com.pk/citations?user=3DH0xZQAAAAJ&hl=en&oi=ao>

Researchgate: https://www.researchgate.net/profile/Muhammad_Awais93

Educational Profile

Degree	Year/Session	% age/CGPA	University/Board
MS in Geology	2012-2016	3.9 CGPA	National Centre of Excellence in Geology, University of Peshawar, Peshawar.
BS (4-years) Geology	2007-2011	76.67 %	Department of Geology, University of Peshawar, Pakistan.
F.Sc (Pre-medical)	2005-2007	77.73 %	Board of Intermediate & Secondary Education, Peshawar.
Matric (Science)	2004-2005	78.19 %	Federal Board of Intermediate & Secondary Education, Islamabad.

MS Geology Research

- Reservoir Evaluation of the Eocene Chorgali Formation using outcrop data and geophysical logs of Meyal Oil Field, Potwar Plateau, Pakistan.

BS Geology Project

- Geological Mapping and Structural Analysis of a part of Kala-Chitta Range, Kahi Village, Nizampur, Khyber Pakhtunkhwa, Pakistan.

Distinctions & Awards

- Best Teacher Award (3rd position)** of University of Swabi for the year 2015.
- Certificate of Merit** on securing third position in Department of Geology, University of Peshawar in the academic session 2007-2011 awarded by University of Peshawar.
- Certificate of Merit** on qualifying for PIASSA (Pakistan International Airlines Senior Staff Association) roll of honour by securing 78.0 % marks in SSC Examination held in 2005.

Honors

- APGA** (All Pakistan Geoscientists Association) Student Chapter Head in the Department of Geology, University of Swabi. From October 29, 2018 to till date.
- 7th position** in GULL'S Photo Contest on "Science in Nature" organized by Gull's Association Pakistan on February 20, 2018.
- Member Board of Faculty of Sciences** of the University of Swabi for 03 years w.e.f. May 05, 2017.
- Program Team (PT) Member of Self-Assessment Report (SAR)** Writing of Department of Geology, University of Swabi. From 4th April, 2017 to till date.
- Member (Lecturer) **Board of Studies** of Department of Geology, University of Swabi for 3 years w.e.f 05 April, 2017.
- Member (Lecturer) **Board of Studies** of Department of Chemistry, University of Swabi from December, 2016 to April, 2017.
- Member (Lecturer) **Board of Studies** of Department of Geology, University of Swabi from 09 July, 2015 to 04 April, 2017.
- Logo Designer** of Department of Geology, University of Swabi, Khyber Pakhtunkhwa, Pakistan.

Professional Experience

- Lecturer (BPS-18)** in Department of Geology, University of Swabi, Khyber Pakhtunkhwa (KP), Pakistan. From 26th December, 2014 to till date.

- Visiting **Lecturer** in Department of Geology, University of Swabi, KP, Pakistan. From 11th October 2014 to 24th December, 2014.
- **GIS Digitizer** (GIS based Geological Mapping) in a Project at National Centre of Excellence in Geology, University of Peshawar, Peshawar. From 14 January, 2013 to 30 September, 2014.
- Visiting **Lecturer/Instructor** in Gems & Gemological Institute of Pakistan (GGIP), Peshawar. From 15 November, 2012 to till date.

Administrative Experience

- Head of Departmental Examination and Students Grievances Committee of Department of Geology, University of Swabi w.e.f. June 04, 2018 to till date.
- **Staff Proctor** of Department of Geology, University of Swabi for sessions 2017-18 and 2018-19.
- **Member Admission Committee** in Department of Geology, University of Swabi, Swabi, KP, Pakistan for sessions 2016-17 and 2015-16.
- **Member Admission Committee** in Department of Chemistry, University of Swabi, Swabi, KP, Pakistan for the session 2016-17.
- **Incharge Examinations** in Department of Geology, University of Swabi, Swabi, KP, Pakistan for sessions 2016-17 and 2017-18.
- **Geological Field Incharge** of Department of Geology, University of Swabi, Swabi, KP, Pakistan.
- **Sports Coordinator** of Department of Geology, University of Swabi, Swabi, KP, Pakistan.

Subjects Teaching & Taught

- Carbonate Sedimentology, Reservoir Geology, Logging and Log Interpretation, Geology of Pakistan, Field Geology, Stratigraphy, Sedimentary Petrology, Introduction to Paleontology, Micropaleontology, Structural Geology, Geotectonics, Petroleum Geology, Sequence Stratigraphy, Basin Modeling, Engineering Geology

Research Interests

- Carbonate Sedimentology, Biostratigraphy, Diagenesis, Reservoir characterization, petrophysics, sequence stratigraphy

Geological Field Excursions in Pakistan

- Peshawar Basin; Attock-Cherat Ranges and Kala-Chitta Range; Hazara Basin
- Kohat-Potwar Sub-basins
- Salt Range (Khewra Gorge, Nilawahan Nala, Nammal Gorge, Zaluch Nala, Chichali Nala) and Trans-Indus Ranges
- Chak-Naurang, Dhok Hussain and Nashpa Oil / Gas Fields of OGDCL.

Research Publications (Impact factor: 7.545/2019; Citations: 17/2019)

Research Papers (original research papers & a short communication)

Published

1. Bilal Wadood, **Muhammad Awais**, Muhammad Bilal, Muhammad Ishaq, Laeq Ahmad and Zeeshan Zafar, 2019. Reservoir Characterization and Modelling with Diagenetic Trends of carbonates of the Kawagarh Formation: A Section exposed in the Kala-Chitta Range, Pakistan. International Journal of Economic and Environmental Geology, Vol. 10(2), 105-111 (HEC recognized category Y journal).
2. **Muhammad Awais**, Farhad Ullah, Nasar Khan, Mukhtiar Ghani, Syed Mamoon Siyar, Bilal Wadood, Aizaz Mukhtiar (2019) Investigation of reservoir characteristics, depositional setting and T-R sequences of the Lockhart Limestone of Meyal Oil Field, Pakistan: a petrophysical approach. Journal of Petroleum Exploration and Production Technology. DOI: 10.1007/s13202-019-0730-x.
3. Bilal Wadood, **Muhammad Awais**, Suleman Khan, Sajjad Ahmad, Laeq Ahmad, Muhammad Muslim (2019) Diagenetic studies of the Cretaceous Turbidities, Sulaiman

- Range, Pakistan: Implications for Reservoir Quality. *Journal of Himalayan Earth Sciences*, Vol. 52 (1), 106-119 (HEC recognized category 'X' journal).
4. Nasar Khan, Naveed Anjum, Mansoor Ahmad, **Muhammad Awais**, Naqib Ullah, 2018. Hydrocarbon source rock potential evaluation of the Late Paleocene Patala Formation, Salt Range, Pakistan: Organic geochemical and palynofacies approach. *Journal of Earth System Science*, 127: 98 (IF: 1.104/2019). Doi: 10.1007/s12040-018-0998-0.
 5. Siyar, S.M., **Awais, M.**, Zafar, M., Waqas, M., Faisal, S., 2018. Reservoir characterization of Paleocene Clastics and Carbonates in Chanda-01 well, Kohat Basin, Khyber Pakhtunkhwa, Pakistan: A Petrophysical Approach. *The Nucleus*, 55(1):27-32 (HEC recognized category 'Y' journal).
 6. Ishaq, M., Jan, I.U., Hanif, M., **Awais, M.**, 2019. Microfacies and diagenetic studies of the Sakesar Limestone, Potwar Plateau, Pakistan: approach of reservoir evaluation using outcrop analogue. *Carbonates and Evaporites*, 34(3), 623-656. DOI: 10.1007/s13146-018-0430-5 (Impact Factor (IF): 0.881/2019).
 7. Mohibullah Khan, Mumtaz Ali Khan, Birkhez Aslam Shami, **Muhammad Awais.**, 2018. Microfacies analysis and diagenetic fabric of the Lockhart Limestone exposed near Taxila, Margalla Hill Range, Punjab, Pakistan. *Arabian Journal of Geosciences*, 11(2). DOI: 10.1007/s12517-017-3367-4 (IF: 1.141/2019).
 8. **Awais, M.**, Hanif, M., Khan, M. Y., Jan, I. U., Ishaq, M., 2019. Relating petrophysical parameters to petrographic interpretations in carbonates of the Chorgali Formation, Potwar Plateau, Pakistan. *Carbonates and Evaporites*, 34(3), 581-595. DOI: 10.1007/s13146-017-0414-x (IF: 0.881/2019).
 9. Ma, P., Lin, C., Zhang, S., Dong, C., Zhao, Y., Dong, D., Shehzad, K., **Awais, M.**, Guo, D., Mu, X., 2018. Diagenetic history and reservoir quality of tight sandstones: A case study from Shiqianfeng sandstones in upper Permian of Dongpu Depression, Bohai Bay Basin, eastern China. *Marine and Petroleum Geology*. 89:280-299. DOI: 10.1016/j.marpetgeo.2017.09.029 (IF: 3.538/2019).
 10. Siyar, S.M., Waqas, M., Mehmood, S., Jan, A., **Awais, M.**, Islam, F. U., 2017. Petrophysical Characteristics of Lower Goru Formation (Cretaceous) in Sawan Gas Field, Central Indus Basin, Pakistan. *Journal of Biodiversity and Environmental Sciences*. Vol. 10 (5), p. 260-266.
 11. **Awais, M.**, Ishaq, M., Akhtar, N., Haroon, M., Khan, S., 2016. Mesoscopic structures can give insights to the regional ones – An example of Pumpelly's rule from a part of Kala-Chitta Range near Kahi village, Nizampur, Khyber Pakhtunkhwa, Pakistan: An insight into Economic Geology. *International Journal of Economic and Environmental Geology*, 7(2), 80-84 (HEC recognized category Y journal).
 12. Zia, A., **Awais, M.**, Ishaq, M., Hamid, S., Akhtar, N., Sheikh, L., 2016. Application of Well Log Analysis to Assess the Petrophysical Parameters of the Early Eocene Sui Main Limestone (SML) in Kharnhak-1 Well, Middle Indus Basin, Pakistan. *Iranian Journal of Oil & Gas Science and Technology*, Vol. 5 (2), p. 01-20 (indexed by ISC).
 13. **Awais, M.**, Ishaq, M., and Akhtar, N., 2012-2013. Geological Mapping and Structural Analysis of a Part of Kala-Chitta Range, Kahi Village, Nizampur Khyber Pakhtunkhwa, Pakistan *Journal of Hydrocarbon Research*, Vol. 22 and 23, p. 13-23 (HEC recognized category Y journal).

Accepted

1. **Awais, M.**, Hanif, M., Ishaq, M., and Irfan, U. J. An integrated approach to evaluate dolomite in the Eocene Chorgali Formation, Khair-e-Murat Range, Pakistan: Implications for Reservoir Geology. *Journal of Himalayan Earth Sciences*.

Under Review

1. M. Younis Khan, Irfan U. Jan, **Muhammad Awais**, Muhammad Hanif, Farrukh Hussain. Pore pressure prediction in a carbonate reservoir: A case of Potwar Plateau, Pakistan. *Journal of Himalayan Earth Sciences* (HEC recognized category 'X' journal).
2. **Muhammad Awais**, Bilal Wadood, Muhammad Ishaq, Laeq Ahmad, Muhammad Bilal, Zeeshan Zafar, Nasar Khan, Aminullah Khan. Depositional fabric and bio-sequence stratigraphic framework of the Late Cretaceous Kawagarh Formation, Kala-Chitta Range, Pakistan: Lateral Equivalent of the Gurpi Formation of Iran. *Carbonates and Evaporites* (IF = 0.947/2018).
3. **Awais, M.**, Hanif, M., Irfan, U. J., Ishaq, M., and Khan, M. Y. Eocene Carbonate Microfacies Distribution of the Chorgali Formation, Gali Jagir, Khair-e-Murat Range, Potwar Plateau-Pakistan: Approach of Reservoir Potential using Outcrop Analogue. *Arabian Journal of Geosciences*.
4. Nasar Khan, Imran Ahmad, Muhammad Ishaq, Irfan U. Jan, Wasim Khan, **Muhammad Awais**, 2018. Reservoir potential evaluation of the Middle Paleocene Lockhart Limestone of

the Kohat Sub-basin, Pakistan: Petrophysical Analyses. International Journal of Economic and Environmental Geology (HEC recognized category Y journal).

Submitted

1. Sayed Ali Shah, Muhammad Rustam Khan, Azeem Khan, **Muhammad Awais**. Geological model deduced from gravity data of northwestern Potwar Sub-basin, Pakistan. Acta Geologica Sinica (English Edition) (IF: 2.506/2019).

Newspaper Articles

1. **Muhammad Awais**. Overview on earth and role of Geologist for the service of mankind. Technology Times, 31 May, 2017.
2. **Muhammad Awais**. A tenuous link. The NEWS International. 24 April, 2017.
3. **Muhammad Awais**, Relation of Geology and Social Media: A short review. Daily Pakhtunkhwa Bulletin, 02 March, 2017, p. 6.

Conference Proceedings & Abstracts

1. Bilal Wadood, **Muhammad Awais**, Mansoor Aziz, Junaid Ali, Ahmad Khan, Muhammad Shafique, Mohib Ullah, 2018. Microfacies Analysis and Reservoir Characterization & Modelling with Diagenetic Trends of the carbonates of the Samana Suk Formation: A Section exposed in the Nammal Gorge, Salt Range, Pakistan. Annual Technical Conference (ATC)-2018, Islamabad, Pakistan.
2. **Muhammad Awais**, Muhammad Hanif, Muhammad Aamir, Laeq Ahmad, Nasar Khan, Bilal Wadood, Shuja Ullah, Naseer Ahmad, Tariq Aziz. Depositional and diagenetic studies of the Patala Formation Carbonates exposed in Pir Sohawa Section, Hazara Basin, Pakistan: Implications for reservoir characterization. 5th international conference Earth Sciences Pakistan 2018, Baragali Summer Campus, University of Peshawar (**poster presentation**). P # 85.
3. **Muhammad Awais**; Bilal Wadood; Muhammad Ishaq; Laeq Ahmad; Muhammad Bilal; Zeeshan Zafar; Amin Ullah Khan and Nasar Khan, 2018. Diagenetic Studies and Reservoir Potential of the Cretaceous Kawagarh Formation, Kala-Chitta Range, Pakistan. 5th international conference Earth Sciences Pakistan 2018, Baragali Summer Campus, University of Peshawar (**poster presentation**). P # 87.
4. Mohibullah Khan, Mumtaz Ali Khan, Barkhaiz Aslam Shami, **Muhammad Awais**, 2018. Microfacies analysis and diagenetic fabric of the Lockhart Limestone exposed near Taxila, Margalla Hill Range, Punjab, Pakistan. 5th international conference Earth Sciences Pakistan 2018, Baragali Summer Campus, University of Peshawar (**poster presentation**). P # 76.
5. Bilal Wadood, **Muhammad Awais**, Muhammad Bilal, Zeeshan Zafar, Laeq Ahmad, Aminullah Khan, 2018. Integrated sequence stratigraphic interpretation of the Late Cretaceous Kawagarh Formation, Gandab Section, Kala-Chitta Range, Pakistan. 5th International conference Earth Sciences Pakistan 2018, Baragali Summer Campus, University of Peshawar (**poster presentation**). P # 45.
6. Lawangin Sheikh; Wasiq Lutfi; Zhidan Zhao; **Muhammad Awais**; Laeq Ahmad and Qingshan Shi, 2018. Petrochemical and Geochronological Study of the Rocks of Indus Suture Zone and Kamila Amphibolites, Swat, KP, Pakistan. 5th international conference Earth Science Pakistan 2018, Baragali Summer Campus, University of Peshawar. P # 110.
7. Muhammad Aslam Khan; Laeq Ahmad; Muhammad Noor Taj Khan; **Muhammad Awais**; Bilal Wadood and Muhammad Ishaq, 2018. Reliability of physico-mechanical properties on the petrographic characteristics of the Ambar Formation, Peshawar Basin, Pakistan. 5th international conference Earth Sciences Pakistan 2018, Baragali Summer Campus, University of Peshawar. P # 129.
8. Bilal Wadood, **Muhammad Awais**, Laeq Ahmad, Lawangin Sheikh, 2018. Hydrocarbons prospects in the Kohat-Potwar Sub-Basins: An overview of Petroleum Play. 1st International Conference on Advances in Engineering and Technology / Book of Abstracts. Geological Engineering and Geosciences / 25.
9. Bilal Wadood, Suleman Khan, Sajjad Ahmad, **Muhammad Awais**, 2018. Planktonic Foraminiferal Biostratigraphy of the Maastrichtian strata, Lower Indus Basin, Pakistan. 1st International Conference on Advances in Engineering and Technology / Book of Abstracts. Geological Engineering and Geosciences / 63.
10. **Muhammad Awais**, Nasar Khan. Health and safety environment (HSE) cognizance and acquiescence during geological fieldwork. International Conference on Mining and Fuel Industries (CMFI-2017). 19-21 October, 2017, Sheikh Zayed Islamic Research Centre, Karachi, Pakistan.
11. Nasar Khan, **Muhammad Awais**, Salman Ahmed Khattak, Imran Ud Din, Naveed Anjum, Mansoor Ahmad. Organic geochemical and palynofacies analyses for petroleum source rock potential evaluation of the Paleocene Patala Formation, western Salt Range, Pakistan.

- International Conference on Mining and Fuel Industries (CMFI-2017). 19-21 October, 2017, Sheikh Zayed Islamic Research Centre, Karachi, Pakistan.
12. Nasar Khan, **Muhammad Awais**, Jehanzeb Khan, Asad Muhammad, Ejaz Ahmad Siddique, Jawad Khan, Muhammad Arif, Gohar Ali Bacha. Geological and geotechnical evaluation of weir site of the Koto Hydropower Plant, Dir Lower, Khyber Pakhtunkhwa, Pakistan. International Conference on Mining and Fuel Industries (CMFI-2017). 19-21 October, 2017, Sheikh Zayed Islamic Research Centre, Karachi, Pakistan.
 13. **Awais, M.**, Haroon, M., Ishaq, M., 2017. Engineering Geological mapping of Anbar village, Peshawar Basin, Khyber Pakhtunkhwa, Pakistan: Repercussions for Economic Geology. Abstract volume of Sixth International Hindu Kush Geoscience Conference-2017, Kabul Polytechnic University, Afghanistan, p .9
 14. **Awais, M.**, Ahmad, L., Khan, N., 2017. Limestone in Stratigraphy of Pakistan: Implications for Economic Geology. First International Conference on Emerging Trends in Earth and Environmental Sciences, 9-10 March, 2017, College of Earth and Environmental Sciences, University of the Punjab, Pakistan.
 15. **Awais, M.**, Jehan, N., Ahmad, L., Sheikh, L., 2016. Dolomite in stratigraphy of Pakistan and its economic significances: A Review. 2nd International Conference on Sustainable Utilization of Natural Resources, 3rd October, 2016 (**poster presentation**).
 16. Khan, A., **Awais, M.**, Hussain, Z., 2016. Geophysical Prospecting for Sulphide minerals in Barit-Danyore Nala, Gilgit Baltistan, Pakistan. 2nd International Conference on Sustainable Utilization of Natural Resources, 3rd October, 2016.
 17. Ahmad, L., Jehan, N., **Awais, M.**, 2016. Geological mapping of the Siwalik rocks in the vicinity of Zarkai and Takhti Nasrati Area, District Karak, Surghar-Shinghar Range, Khyber Pakhtunkhwa, Pakistan. 2nd International Conference on Sustainable Utilization of Natural Resources, 3rd October, 2016.
 18. Ahmad, L., Khan, S. D., Shah, M. T., Jehan, N., **Awais, M.**, Sheikh, L., 2016. Application of Ore Microscopy, SEM-EDX and QEMSCAN techniques for study of gold and base metals of Ladakh Island Arc, Gilgit-Baltistan, Pakistan. 2nd International Conference on Sustainable Utilization of Natural Resources, 3rd October, 2016.
 19. **Awais, M.**, Hanif, M., Khan, M. Y., Ishaq, M., Jan, I. U., and Swati, M. A. F., 2016. Lithological studies and petroleum system potential of the Eocene Chorgali Formation using outcrop data and geophysical logs, Potwar Plateau, Pakistan. International Conference on Earth Sciences Pakistan 2016 (**oral presentation**).
 20. **Awais, M.**, Hanif, M., Ishaq, M. A Quick Outcrop-scale Field and Laboratory Staining technique for the Differentiation of Calcite and Dolomite in the Eocene Chorgali Formation: An implication for reservoir characterization. Innovation and Sustainability 27th National and 15th International Chemistry Conference, Department of Chemistry, University of Malakand. August 22-25, 2016 (**poster presentation**).
 21. Sheikh, L., **Awais, M.**, Aamir, M., 2016. Sedimentary geology of the Ordovician Misri Banda Quartzite exposed in the Ambar Village, Peshawar Basin, Khyber Pakhtunkhwa, Pakistan. International Conference on Earth Sciences Pakistan 2016 (**oral presentation**).
 22. Ishaq, M., Jan, I. U., Hanif, M., **Awais, M.**, Hussain, H. S., Ahmad, I., Akhtar, N., 2016. The microfacies analysis and impact of diagenesis on reservoir quality of the Sakesar Limestone, Nilawahan Gorge, Central Salt Range, Pakistan. International Conference on Earth Sciences Pakistan 2016 (**poster presentation**).
 23. Malik, F., Khan, S., Hanif, M., **Awais, M.** Microfacies Analysis of undifferentiated Jurassic rocks of Kala-Chitta Range, Nizampur area, Khyber Pakhtunkhwa, Pakistan. International Conference on Earth Sciences Pakistan 2016 (**poster presentation**).
 24. **Awais, M.**, Jehan, N., Sheikh, L., Ahmad, L., Ullah, F., and Aamir, M., 2016. Urbanization and water challenges – No life without water. International Conference on Earth Sciences Pakistan 2016.
 25. **Awais, M.**, Jehan, N., Sheikh, L., Ahmad, L., Aamir, M., Ullah, F. Climatic changes and its effect on freshwater resources and human health. International Conference on Earth Sciences Pakistan 2016 (**poster presentation**).
 26. Ahmad, L., Ahmad, I., Khan, N., Jehan, N., **Awais M.**, Sheikh., L. Fracture analysis of Siwalik rocks in the vicinity of Zarkai and Takhti Nasrati area, District Karak, Surghar-Shinghar Range, Khyber Pakhtunkhwa, Pakistan. International Conference on Earth Sciences Pakistan 2016.
 27. Ahmad, L., Shah, M. T., Khan, S. D., Jehan, N., Sheikh, L., **Awais, M.** Petrochemical investigation of the rocks of Bubin (Astor) and surrounding areas, Gilgit-Baltistan, Pakistan. International Conference on Earth Sciences Pakistan 2016 (**oral presentation**).
 28. Khalil, Y. S., and **Awais, M.**, 2016. Geological Field Guide through the Western China Pakistan Economic Corridor: Potential Sites of Geological Heritage. 3rd International

- Multidisciplinary Research Conference, Sarhad University of Science and Information Technology, Peshawar, Pakistan (**oral presentation**).
29. **Awais, M.**, Hanif, M., Jan, I. U., Ishaq, M., Khan, M. Y., 2016. Diagenesis and its effect on the reservoir quality of the Eocene Chorgali Formation, Gali Jagir, Khair-e-Murat Range, Potwar Plateau-Pakistan. The 8th International Siberian Early Career Geoscientists Conference, Novosibirsk, Russia.
 30. **Awais, M.**, Khan, M. Y., Hanif, M., Jan, I. U., and Ishaq, M., 2016. Petrophysical evaluation of the Eocene Chorgali Formation, Meyal Oil Field, Potwar Plateau, Pakistan. GeoConvention 2016.
 31. **Awais, M.**, Hanif, M., Jan, I. U., and Ishaq, M., 2015. An integrated approach to evaluate the porosity/permeability of the Eocene Chorgali Formation, Khair-e-Murat Range, Pakistan. Proceedings of Fifth International Hindu Kush Geoscience Conference-2015, Afghanistan (**oral-webcast presentation**).
 32. **Awais, M.**, Hanif, M., Jan, I. U., and Ishaq, M., 2014. Microfacies Analysis and Reservoir Potential of the Eocene Chorgali Formation, Chorgali Pass Section, Gali Jagir, Punjab, Pakistan. Earth Sciences Pakistan, Baragali Summer Campus, University of Peshawar, Journal of Himalayan Earth Sciences, p. 22 (**poster presentation**).
 33. **Awais, M.**, 2014. Kala-Chitta Range: A highly deformed fold and thrust belt of Hill Ranges, NW Himalayan Fold and Thrust Belt, Pakistan. GeoConvention 2014.

Thesis Supervision (Undergraduate level – 33 students)

- Microfacies analysis, depositional environment and reservoir evaluation of the Paleocene Patala Formation, Hazara Basin, Pakistan (Muhammad Aamir, Tariq Aziz, Muhammad Zuhaib and Naseer Ahmad; session: 2013-17).
- Reservoir characterization and sequence stratigraphic interpretation of the Lockhart Limestone of the Meyal Oil Field, Potwar Plateau, Pakistan (Farhad Ullah, Aizaz Mukhtiar, Shahan Khaliq, Noor Baz and Abdullah Khan; session: 2013-17).
- Microfacies analysis and reservoir characterization of the Triassic Kingriali Dolomite, Kala-Chitta Range Pakistan (Wajid Khan, Awais Ullah, Waqar Ali, M. Shehryar Khan, Ahmad Noor and Waleed Sultan; session: 2013-17).
- Microfacies analysis, biostratigraphy, diagenesis and reservoir characterization of the Cretaceous Kawagarh Formation, Kala-Chitta Range, Pakistan (M. Bilal, Zeeshan Zafar, Amin Ullah, M. Ishaq, Sadeeq Ur Rehman and Tariq Ur Rehman; session: 2013-17).
- **Co-Supervision**: Petrographic and provenance study of the Misri Banda Quartzite, Khyber Pakhtunkhwa, Pakistan (M. Abbas Qamar, Mohsin Khan, Shahid Rahim, M. Mustafeez ur Rehman, M. Zaid; session: 2013-17).
- Depositional-diagenetic fabric and reservoir characterization of the Paleocene Lockhart Limestone, Kala-Chitta Range (F.R Peshawar), Pakistan (Taimur Wahid, M. Yousaf and Najib Ullah; session: 2014-18).
- Subsurface geological interpretation of the Offshore Indus Basin, Pakistan (Salman Naseer, Abdul Aleem, Jalal Younas and Ubaid Bahadar; session: 2014-18).
- Microfacies analysis and interpretation of depositional environment(s) of the Jurassic Samana Suk Limestone, Darra Adam Khel, Khyber Pakhtunkhwa, Pakistan (Arshid Ali, Taimur Khan, Wisal Ahmad; session: 2015-19; **in progress**).
- Depositional-Diagenetic history and reservoir quality of Paleocene Lockhart Limestone, Hazara Basin, Pakistan (M. Farooq Ali Shah, M. Ihtisham Ul Haq; session: 2015-19; **in progress**).

Other Scientific Contributions

- **Muhammad Awais**. Outcrop and microscopic photographs submitted to be published in the Atlas of Structural Geology, Second edition, Elsevier. Editor - Dr. Soumyajit Mukherjee, Indian Institute of Technology Bombay, India.
- **Outcrop photograph on the Journal Cover Page** - Photograph showing the concentrically folded Patala Formation, taken from the paper titled "Geological Mapping & Structural Analysis of a Part of Kala-Chitta Range, Kahi Village, Nizampur Khyber Pakhtunkhwa (authored by **Muhammad Awais**, Muhammad Ishaq and Naveed Akhtar), on page 16 of Pakistan Journal of Hydrocarbon Research (ISSN: 1017-0626) Volume 22 and 23, 2012 & 2013.

Reviewer (BS, MS Theses, research journals and conference abstracts)

- Reviewed **extended abstracts** for EAGE (European Association of Geoscientists & Engineers) Annual 81st Conference & Exhibition – 2019, London, UK.

- Reviewed BS Geology Theses (hydrocarbon source rock potential evaluation, reservoir characterization, biostratigraphy and microfacies analysis) of Department of Geology, University of Malakand, University of Peshawar and Khushal Khan Khattak University Karak (KKKUK) in the years 2016, 2017, 2018 and 2019.
- Reviewed MS Geology Theses (diagenesis, reservoir characterization, petrophysics and structural geology) of NCE in Geology, University of Peshawar, Peshawar and Department of Earth & Environmental Sciences, Bahria University, Islamabad, Pakistan, 2016.
- Reviewer of **Acta Geologica Sinica-English Edition** (Impact Factor = 2.506/2018). <https://onlinelibrary.wiley.com/journal/17556724>.
- Reviewer of **Arabian Journal of Geosciences** (Impact Factor = 0.860/2018). <https://link.springer.com/journal/12517>.
- Reviewer of **Carbonates and Evaporites** (Impact Factor = 0.881/2019). <https://link.springer.com/journal/13146>
- Reviewer of **Earth Sciences Research Journal** (Impact Factor = 0.262/2018). <https://revistas.unal.edu.co/index.php/esrj>.
- Reviewer of **Kuwait Journal of Science**. <https://journalskuwait.org/kjs/index.php/KJS>
- Reviewer of **Journal of Himalayan Earth Sciences** (HEC recognized X category journal), Pakistan. <http://nceg.uop.edu.pk/researchjournal.html>.
- Reviewer of **Iraqi Bulletin of Geology and Mining**. Website: <http://en.geosurviraq.iq/pages?id=31>.
- Reviewer of **Global Journal of Earth and Environmental Science**. Website: www.integrityresjournals.org.
- Reviewer of **Journal of Aquatic Sciences and Oceanography (JASO)**. Website: <http://www.scholarena.org/journals/journal-of-aquatic-sciences-and-oceanography/jhome.php>.

External Examiner for MS & BS Theses

- BS Geology Theses (hydrocarbon source rock potential evaluation, reservoir characterization, biostratigraphy and microfacies analysis) of Department of Geology, University of Malakand and University of Peshawar, 2016; and Khushal Khan Khattak University Karak (KKKUK) in the year 2019.
- MS Geology Theses (diagenesis, reservoir characterization and structural geology) of Department of Earth & Environmental Sciences, Bahria University, Islamabad, Pakistan, 2016.

Participation in International Summer College, Conferences & Symposium

- Activity-IV: Advances in Geophysics at 44th International Nathiagali Summer College (INSC) on Physics and Contemporary Needs, National Centre for Physics (NCP), Islamabad, Pakistan. 22-27 July, 2019.
- Annual Technical Conference (ATC) 2018 organized by Pakistan Association of Petroleum Geoscientists (PAPG) and Society of Petroleum Engineers (SPE), held in Serena Hotel, Islamabad on December 11-12, 2018.
- Olympus Advance NDT Symposium 2017, Islamabad Hotel, Islamabad, Pakistan. 8th and 9th February, 2017.
- 2nd International Conference on Sustainable Utilization of Natural Resources, 3rd October, 2016, National Centre of Excellence in Geology, University of Peshawar, Peshawar, KP, Pakistan.
- International Conference on Earth Sciences Pakistan (ESP) 2016, Baragali Summer Campus, University of Peshawar. September, 2016.
- 3rd International Multidisciplinary Research Conference, Sarhad University of Science and Information Technology, Peshawar, Pakistan.
- Fifth International Hindu Kush Geoscience Conference-2015, Kabul Polytechnic University, Afghanistan.
- International Conference on Earth Sciences Pakistan (ESP) 2014, Baragali Summer Campus, University of Peshawar.

Professional & Social Course/Diploma/Certificate/Seminar/Workshop/Training

- One day workshop on **Self-Assessment Report (SAR)** Writing held on May 16, 2019 at University of Swabi.
- **Brand Yourself: A 1-day experience!** Organized by Pakistan Association of Petroleum Geoscientists (PAPG). March 31, 2018.
- A seminar on **Applications of Remote Sensing & GIS**. 04 October, 2017.

- One day workshop on **Computer Based Software Application in Research**. 22 May, 2017.
- Two days workshop on **Disaster Risk Reduction** held on 20-21 May, 2017.
- One day workshop on **Basics of Mud Logging & Well Site Geology** held on April 12, 2017 at ADD Skills Institute of Professional Courses, Peshawar, KP, Pakistan.
- One day workshop on **Self-Assessment Report (SAR) Writing as a Program Team (PT) Member** held on April 06, 2017 at University of Swabi.
- **1st Workshop on Statistical Analysis using SPSS**. 17 March, 2017.
- A Seminar on **Climate Change and Resource Efficient Urban Growth**. 11th March, 2017.
- **Biosafety Training Workshop for Young Researchers**. 20 December, 2016.
- One day workshop on **Quantitative Seismic Interpretation**. 04 December, 2015.
- A 3-days workshop on **Hydrocarbon Exploration Techniques**. 28th-30th May, 2015.
- A seminar on **"Sequence Stratigraphy: A tool to understand the Petroleum System"**. 24th April, 2015.
- A seminar on **"Environmental Remote Sensing"**. 2nd December, 2014
- A seminar on **Geospatial Technologies for Assets Management**. 04 October, 2013.
- A seminar on **Tectonomagmatic controls on Porphyry & Epithermal mineralization**. 26th June, 2013.
- 4-days training workshop on **Youth as Active Citizens**, 14th to 17th February, 2012, Peshawar, Pakistan.
- A workshop on **Seismic and Well Log Analysis**, 14th October, 2011 to 16th October, 2011.
- **Gemstone** Course, 7th May, 2012 to 14th September, 2012 (4 months).
- Diploma in **Material Testing**, 1st April, 2011 to 30th September, 2011 (6 months).

Lectures/Talks in Seminars

- Delivered a lecture titled "Lithological studies and petroleum system potential of the Eocene Chorgali Formation using outcrop-sedimentological and geophysical data, Potwar Plateau, Pakistan" in a seminar entitled **"Exploration Geophysics"** held on February 21, 2019 at National Centre of Excellence in Geology, University of Peshawar, Peshawar, Pakistan.

Events organized

- **Organizer of 1st Workshop on Statistical Analysis using SPSS** held on 17 March, 2017 at University of Swabi.
- Chief Organizer of **World Water Day (WWD) 2017** in Department of Geology, University of Swabi, Swabi, KP, Pakistan.
- Member of organizing committee for 2nd International Conference on Sustainable Utilization of Natural Resources. Organized by NCE in Geology, University of Peshawar and University of Swabi, held on 3rd October, 2016.
- Chief Organizer of **Earth Day 22 April 2016** in Department of Geology, University of Swabi, Swabi, KP, Pakistan.

International Online Courses

- **Climate Change** via Learning for Nature program of United Nations Development Programme (UNDP). August 08, 2019. <https://learningfornature.org/courses/powpa-module-17-climate-change/>
- **Oil & Gas Industry Operations and Markets** offered by Duke University, United States of America (USA) via coursera. June 24, 2019 to July 10, 2019.
- **Advanced online first aid course** offered by FIRST AID for free! June 12, 2019.
- **Basic online first aid course** offered by FIRST AID for free! June 11, 2019.
- **Chinese for HSK 1** offered by Peking University, China via coursera. Spring 2019; from April 28, 2019 to June 11, 2019.
- **Reservoir Geomechanics (ResGeo 202)** offered by Stanford University, USA. Spring 2019; from April 01, 2019 to June 03, 2019.
- **Project Management Course** offered by Brentwood Open Learning College (<https://www.bolc.co.uk>). From April 26, 2019 to May 06, 2019.
- **Energy 101: The Big Picture** offered by Georgia Institute of Technology via Coursera (9 weeks course). Accomplished on May 03, 2013.
- **Introduction to Safety Management** online course offered by OSHAcademy Occupational Safety & Health Training.

National & International Societies Membership

- Member of **Young Earth System Scientists (YESS) community**. From April 16, 2019 to till date.
- Member of **International Geoscience Education Organisation (IGEO)**. From April 13, 2019 to till date.
- Member of **International Association of Sedimentologists (IAS)**. From November 07, 2018 to till date.
- Member of **Pakistan Scientific and Technological Information Center (PASTIC)**. From November 07, 2018 to till date.
- Member **Pakistan Association of Petroleum Geoscientists (PAPG)** since 2018.
- Member of **International Association for Promoting Geoethics (IAPG)** since 23 May, 2017.
- Member of **Geological Society of America (GSA)**. GSA member ID 9205197.
- Remained **Student Member** (for 1 year) of **European Association of Geoscientists and Engineers (EAGE)**. EAGE membership # M2013-2187.
- **Student Member** of **American Association of Petroleum Geologists (AAPG)** since 2012. AAPG membership # 10076887.
- **Student Member** of **Society of Petroleum Engineers (SPE)** since September 2012. SPE membership # 4066018
- Remained **Student Member & Volunteer** of **Canadian Society of Petroleum Geologists (CSPG)**.

Professional Computer Skills

- Global Mapper • Google Earth • Corel Draw Graphic Suite • GEOrient
- Adobe Illustrator CS2 • MS Office (MS Word, MS Excel, MS Power Point) • ArcGIS 9.3

Strengths/Skills & Hobbies

- Report Writing, Group Work and Communication Skills, Good Presentation Skills. Good Leadership Qualities.
- Web Browsing, Reading Newspapers and watching movies.

References

- References will be provided if required.