

Department of Earth Sciences
Quaid-i-Azam University
Islamabad

Cell No. 03335181606
03185241232

E-mail: aneesbangash@gmail.com
aneesbangash@hotmail.com
bangash@qau.edu.pk

Anees Ahmad Bangash

Qualifications and brief detail of

studied material: 1989 – 1996 Quaid-i-Azam University Islamabad

- **M. Sc Geophysics** **1989-1991**
Topic: 2-D Seismic Survey between Kuri and Naugazi.
 1. Seismic Refraction survey, its data acquisition analysis processing and interpretation in the Kuri area Islamabad.
 2. Gravity and magnetic field data acquisitions processing modeling and interpretation.
 3. Data processing and analysis of Electrical methods.
 4. Practical experience of different geophysical instruments

- **M. Phil. Geophysics** **1992-1995**
Topic: Gravity Modeling in the Eastern Salt Range.
 1. Practical experience of Potential field modeling software
 2. Regression and trend surface analysis of the potential field data
 3. Gravity field modeling and interpretation of the Eastern Salt Range of Pakistan.

- **PhD. Geophysics** **2017**
Topic: Integrated studies of Indus Offshore for Hydrocarbon Potential/Evaluation Using Seismic Inversion. Attributes, Velocity Model. Petro physics and Rock Physics Analysis along with 3-D Geological Model Building.
 - Data Acquisition with Scintrex LaCoste & Romberg and Worden Gravimeters
 - Gravity data measurement, processing and analysis for geophysical as well as geodetic applications.
 - Teaching different courses regarding exploration Geophysics.
 - Teaching different courses regarding the mathematical Application.
 - Teaching the course of ‘geophysical data processing ‘which include the geophysical and computer programming skills.

- Researches:**
1. Hydrochemical appraisal of fluoride contamination in groundwater and human health risk assessment at Isa Khel, Punjab, Pakistan Rehman, F., Siddique, J., Shahab, A., Azeem, T., Bangash, A. A., Naseem, A. A.,_ur Rehman, Q. (2022). Environmental Technology & Innovation, 27, 102445.
 2. Classification of the dolomites of Cretaceous Kawagarh Formation in Hazara Basin North-west Himalayas Pakistan: Evidence from field investigation, petrographic analysis, and isotopic studies. Saleem, M., Sajjad, S.W., Khan, E.U., Naseem, A. A*, Bangash, A.A., Rafique, A., Hussain, S., Ullah, H., Khan, S. and Ahmad, W., 2022. Carbonates and Evaporites, 37(1), pp.1-14.]
 3. Fluid replacement modeling increases reservoir seismic gas response. June 2020 Oil and Gas Journal 118(10):18-26 muhammad Rizwan Mughal, Akhter, Anees
 4. Rock Physics Relations Derived from Petrophysical Logs for Indus Offshore Area, Pakistan August 2018 DOI: 10.1007/s13369-018-3455-0,Anees Ahmad Bangash, Khalid Amin Khan, Gulraiz Akhter.
 5. Petrophysical relationship for density prediction using V_p & V_s in Meyal oilfield, Potwar sub-basin, Pakistan, January 2018, Geodesy and Geodynamics 9(2), Follow journal DOI: 10.1016/j.geog.2017.07.008, License CC BY-NC-ND 4.0, Gulraiz Akhter, Muhammad Younis Khan,Anees Ahmad Bangash, Yawar Hussain.
 6. Software based seismic refraction recording system October 2017, DOI: 10.1190/iceg2017-004, Conference: International Conference on Engineering Geophysics, Al Ain, United Arab Emirates, 9-12 October 2017, Khalid Amin Khan, Anees Ahmad Bangash.
 7. fault seal analysis lessens ambiguity in the sinjhoru area, Pakistan,June 2017 Oil and Gas Journal 115.6 Gulraiz Akhter, Bilal Aslam, Anees Ahmad Bangash
 8. Spreadsheets for understanding seismic energy partitioning equations: ENERGY PARTITIONING SPREADSHEETS, March 2017, Computer Applications in Engineering Education 25(3), Follow journal DOI: 10.1002/cae.21811, Anees Ahmad Bangash, Khalid Amin Khan, Gulraiz Akhter.
 9. Raw seismic velocities aid predictions in mud program designs, Khalid Amin Khan, Anees Ahmad Bangash, Gulraiz Akhter. Oil and Gas Journal volume 115 issues 11 pages 30-35 published NOV6 2017.
 10. Flood probability analysis for different return periods in District Peshawar, Pakistan Shah Nawaz Khan , Amir Nawaz Khan , Muhammad Ali and Anees Bangash Ahmad Submitted: 7/12/2017 Accepted: 11/10/ 2019 Published online: Journal of Himalayan Earth Sciences Volume 52, No. 2, 2019 pp. 225-236
 11. Application of electrical resistivity method in delineating aquifer properties along with vulnerability mapping in Gujrat District and surrounding areas of Punjab province Abrar Niaz1*, Muhammad Rustam Khan, Fahad Hameed, Aamir Asghar, Anees Ahmad Bangash, Umair Bin Nisar, Jawad Niaz1 Muhammad Farooq, Muhammad Yasin Khan1 and Mansoor Awan Journal of Himalayan Earth Sciences Volume 52, No. 2, 2019 pp. 106-128.

Submitted

1. Anees Ahmad Bangash., Hina Fatimah., Shazia Bangash., Arsalan Tariq., Naseem, A. A., “Evaluation of Earthquake Associated Thermal Anomalies Encompassing Three Converging Plates using Moderate Resolution Imaging Spectroradiometer and Land Surface Temperature”. *Advances in Space Research*. (Manuscript ID: AISR-D-21-00809)
2. Hina Fatimah., Shazia Bangash., Naseem, A. A., Anees Ahmad Bangash. “Historical and Projected Extreme Climate Trends in Pakistan under AR5 Emission Scenarios”. *Sains Malaysiana*. (Manuscript ID: 50593-166408-3-SM)
3. Anees Ahmad Bangash., Hina Fatimah., Shazia Bangash., Naseem, A. A. “Impact of Greenhouse Gases on Climate Change under AR4 Emission Scenarios - A Global Perspective”. *Energies*. (Manuscript ID:1502732)
4. Naveed Anjum, Abbas Ali Naseem, Hasnain, jawad, Anees Ahmad Bangash. “A study of reservoir potential of Cretaceous-Paleocene successions of Nizampur basin, Khyber Pakhtunkhwa, Pakistan: constraints form fracture analysis, petrography and geochemistry”.Cardonte and evaporites.Ms. No. CAEV-D-22-00027R2.
5. Abbas Ali Naseem, Muhammad Yaseen, Naveed Anjum, Syed haroon Ali, Anees Ahmad Bangash.”Petrology And Preliminary Geoheritage Assessment Of The Gharam Chashma Granitic Batholith (GCGB), Southern Margin Of Asian Plate, NW Pakistan: A Regional Geodiversity”.*Geoheritage journal*. [EMID:ea9867eecd20806]
6. Muhammad Yaseen, Abbas Ali Naseem, Naveed Anjum, Jawad, Anees Ahmad Bangash “Petrography and aggregate analysis of the carbonates from babuzai area, pakistan.Suranaree Journal of Science and Technology, Thailand.Manuscript ID 220304221

Thesis: Supervisions: 1. More than **200** MSc Dissertations has been supervised so far.
2. More than 20 MPhil Dissertation has been supervised.

Projects:

1. URF Project ‘Development of 3D velocity model of Indus offshore, and its application on areas of Pakistan.’ Worth Rs .12 million.
2. URF Project ‘Determination of crustal density in Kohat district using fractal method.’
3. Worked in different projects of “**Resistivity and Seismic Refraction**”

Course/Seminars:

1. Environmental management in Oil and Gas Sector. A joint venture of WWF Pakistan and LEAD Pakistan held in Islamabad 20 July 2004.

2. Practical Seismic Exploration, Geodacy, GIS Mapping & related Computer Applications.
3. Impact of Climate change on water Reservoirs & Glaciers: Concerns and Challenges' 7th and 8th jan 2010.
4. CDPM Disaster management Exhibition 2009.
5. Contaminant Hydrogeology 12th 19th nov 2008.
6. 'Introduction to Hydrocarbon Exploration Techniques and Advanced methodologies.16th to 19th oct 2014.
7. China-Pakistan joint Research Center on Earth Sciences Quaid-i-Azam University Islamabad. (As Organiser) 4rth oct 2019.
8. One day Seminar on the seismic activity of northern Pakistan, Department of Mathematics Quaid-i-Azam University Islamabad, 13th Nov, 2005.
9. International Workshop on Monitoring of Tectonic Plates: Use of Seismic & GPS Technology May 02-03, 2006 Islamabad-Pakistan. Organized by COMSATS. Attended
10. Water Crises in Pakistan – Concerns and challenges convened in Auditorium of the Department of Earth Sciences in 6th October, 2006.
11. Attended the courses of six months to learn 'FORTRAN' language.
12. Attended PGD courses of six months to learn computer skills.
13. Attended a course of four weeks to learn MATLAB.

Workshops Conducted:

- Workshops conducted on the topic of Seismic Waves propagation and its utilization in the oil industry for hydrocarbon detection in the department of Geophysics from 2007-2011. During the summer break.
- Introduction to Hydrocarbon Techniques, from 16th to 19th oct 2014 by Pakistan Association of Petroleum Geoscientists. (PAPG).