

Curriculum Vitae of Dr. ABDUL HAQUE TUNIO

Personal Information:	
Name:	Dr. ABDUL HAQUE TUNIO
Date Of Birth:	08th April 1968
Marital Status :	Married
Nationality:	Pakistani
Passport No.:	AS7793592
E-mail: official :	haque.tunio@faculty.muet.edu.pk
Personal:	abdulhaquetunio@hotmail.com
Tel. No. Off: 0092-22-2771241; Mobile No: 0092-300-3442085	



Education:				
Date		Name & Address of Institution	Academic Degree / Diploma / Certificate Obtained	Subject / Field of Study
From	To			
2002	2008	Mehran University of Engineering & Technology, Jamshoro.	PhD	Petroleum Engineering
1986	1991		Bachelor of Engineering	Petroleum & Gas
Employment History:				
Designation/ Title	Date		Name of Organization	Brief Job Description
	From	To		
Director/ Professor	10 -10-2016	To date	Institute of Petroleum & Natural Gas Engineering, MUET, Jamshoro.	<ul style="list-style-type: none"> • Professor holding additional charge of Director. • To ensure smooth operational running of the Institute of Petroleum & Natural Gas Engineering. • Teaching various subjects at undergraduate and Post Graduate level • Carrying out independent research and setting up apparatus. • Guide and advice to undergraduate and post graduate students. • Writing complete and detailed research
Senior Lecture/ Assistant Professor	11 -10-2014	08-10-2016	Petroleum Engineering Department, University Technology PETRONAS, Malaysia	<ul style="list-style-type: none"> • Well Test Analysis (BS) • Production Technology (MS) • Carrying out independent research and setting up apparatus. • Guide and advice to undergraduate and post graduate students. • Writing complete and detailed research reports

Director/ Professor	01.01.2013	10-10-2014	Institute of Petroleum & Natural Gas Engineering, MUET, Jamshoro.	<ul style="list-style-type: none"> • Professor holding additional charge of Director. • To ensure smooth operational running of the Institute of Petroleum & Natural Gas Engineering. • Teaching various subjects at undergraduate and Post Graduate level • Carrying out independent research and setting up apparatus. • Guide and advice to undergraduate and post graduate students. • Writing complete and detailed research
Professor	07.02.2012	10-10-2014	-do-	-do-
Associate Professor	01.04.2010	06-02-2012	-do-	-do-
Assistant Professor	12.01.1998	31.03.2010	-do-	-do-
Lecturer	16.11.1996	11.01.1998		
Assistant Engineer, Petroleum (T)	02.06.1996	14.11.1996	TOC Oil & Gas Development company Limited. Pakistan	<ul style="list-style-type: none"> • Surface Production Facilities (Desalting Unit). • Well Completion • Perforation (Under Balance & Over Balance) • Well Monitoring • Drill Stem Testing (DST) • Water Injection.
Lecturer	07.09.92	31.05.1996	Institute of Petroleum & N.Gas Engineering	<ul style="list-style-type: none"> • Teaching / Lab. Work.
Assistant Engineer (T)	01.10.1991	31.08.1992	Sui Southern Gas Company Limited Hyderabad. Pakistan	<ul style="list-style-type: none"> • Pipe line commissioning • Distribution

Administrative Experience:

Designation / Title	Date		Name of Organization where Working or Worked	Brief Job Description
	From	To		
Director	01.01.2013	To date	IP&NGE, MUET, Jamshoro	<ul style="list-style-type: none"> To ensure smooth operational running of the Institute of Petroleum & Natural Gas Engineering.
Iso-Coordinator	07.09.2007	31.12-2012	IP&NGE, MUET, Jamshoro	<ul style="list-style-type: none"> As per Iso requirement
Secretary, DMRC	07-09-2006	31-12-2012	IP&NGE, MUET, Jamshoro	<ul style="list-style-type: none"> To arrange meetings To discuss academic and Nonacademic matters
Faculty Sponsor	01-07-2007	31-12-2011	SPE Mehran Student Chapter	<ul style="list-style-type: none"> To arrange Technical Lecturers, Field Visits, seminars, workshop and conferences

Details of Trainings / Courses:

Sr. No.	Name of Faculty Member	Designation	Name of Training	Place of Training	Name of Sponsor	Date & Duration of Training
1.	Abdul Haque Tunio	Assistant Engineer (Petroleum Trainee)	<p><u>Courses for Petroleum Engineers</u></p> <ul style="list-style-type: none"> Basic Production Course Introduction To Petroleum Geology Well Operations Flowing Well Performance Design Calculation for Conventional Sucker Rod Pumping Method Gas Lift (Design and Application) Improved oil recovery methods Environmental issues related to petroleum industry 	OGTI Islamabad	OGDCL	June, 1996- Nov., 1996

OTHER COURSES	a) Courses Attended at MUET, Jamshoro: <ul style="list-style-type: none"> • Effective Management and Communication Skills • Practical Aspects of Reservoir Engineering • Material Balance Methods For Oil and Gas Reservoirs • Well Logging Interpretation Techniques • Well Testing • Reservoir Simulation • Petroleum as Non-Renewable Energy Resource • 5-days course on Well control Training Simulator
	b) Annual Global Improved Oil Recovery Interactive Technology Workshop, 01-05 June, 2009, Athens, Greece, Organized by: PRAXIS Global Research Inc. <ul style="list-style-type: none"> • Chemical Injection • Polymers • Surfactants • Gas Injection • Hydro cyclone
COMPUTER COURSES SUBJECTS CAN BE TAUGHT	MS Office (Word, Excel, Power Point) & Internet <ul style="list-style-type: none"> • Well testing • Enhanced Oil Recovery • Production Engineering • Well Performance • Petroleum Operations • Pressure Transient Testing • Well Completion & Stimulation • Production Optimization • Reservoir Engineering

Details of National Awards / Medals / Distinctions Received

Sr. No.	Name of Faculty Member	Name of Award / Medal / Distinction	Name of Authority Giving Award / Medal / Distinction	Date of Award / Medal / Distinction
1.	Abdul Haque Tunio	Gold Medal For First Class Ist Position	Mehran University of Engineering & Technology, Jamshoro	1991
2.	Abdul Haque Tunio	Certificate of Academic Merit.	-do-	1991

Details of Memberships of National Professional Bodies / Councils / Committees / Organizations:

Sr. No.	Name of Bodies / Councils / Committees / Organizations	Date and Duration of Membership
1.	Member, Pakistan Engineering Council (PEC)	Jan.,1992 to date
2.	Member, Society of Petroleum Engineers (SPE) International	Jan.,2007 to date
3.	Member, Curriculum of Petroleum Engineering , Higher Education Commission (HEC)	Jan.,2008 to date
4.	Chairman/ Convener, Board of Studies, IP &NGE	Jan.2013to date
5.	Member, Board of Faculty of Engineering, MUET, Jamshoro	April.,2010 to date
6.	Member, SPE, Technical Committee, SPE Pakistan Section	July.,2012 to date
7.	Expert/Member, Pakistan Engineering Council (PEC), Engineering Practice Examination (EPE) for Petroleum Engineers	March.,2010 to date
8.	Member, Academic Council, MUET, Jamshoro	Feb.,2012 to date
9.	Member, Senate, MUET, Jamshoro	Feb.,2012 to date
10.	Member, Selection Board , University of Karachi	June, 2011 to date
11.	Member, Curriculum of Petroleum Technology (DAE) , STEVTA, Karachi	July, 2012 to date



Signature:

Date: 05-05-2017

Current research Projects at University Teknologi PETRONAS (UTP) Malaysia

1. Research Projects at UTP, Malaysia

- (i) Experimental Evaluation and Simulation of Enhanced Oil Recovery by Water alternate Gas Injection (WAGI).
- (ii) Smart Nano fluids for Ultra IFT Reduction under mixed wet conditions for EOR applications
- (iii) Enhanced Imidazolium-based Ionic liquids for Effective methane hydrate inhibition and dissociation
- (iv) Asphaltene Induced Formation Damage Restoration by Water Alternating Gas (WAG) EOR Process
- (v) Pressure and rate transient analysis of the simulated multi-fractured horizontal wells drilled in
- (vi) Petrophysical Evaluation of Unconventional Gas Reservoirs- Shale Gas Reservoirs

2. Masters project at UTP Malaysia

- (i) Simulating Performance of Oil Production by Installing ESP

3. B.E Final Year Projects at UTP Malaysia

- (ii) Forecasting Production Enhancement between Horizontal and Fractured Vertical well in tight gas reservoirs using Simulation
- (iii) Simulating the effect of water-shut off treatment by means of polymer gel injection
- (iv) Quantification and Characterization of sludge deposition in crude oil Tank
- (v) To develop the optimum field development plan for condensate wells using IPM
- (vi) Study of CO₂ Injection into Gas Reservoir for Enhanced Oil recovery
- (vii) Laboratory Investigation of Miscible CO₂ WAG Injection Efficiency in Carbonate Reservoirs
- (viii) Simulation of Water Alternate Gas Injection into Oil Reservoir
- (ix) Experimental study of Tertiary Immiscible Water alternate Gas Injection

M.E/ MS THESIS/RESEARCH PROJECTS Supervised at Mehran University of Engineering & Technology (MUET) Jamshoro Pakistan

S#	Name of Student	Research Topic
1	Mr. A.Q. Shaikh	Cased hole completion for horizontal well for optimize the Production rate
	Mr. N.A.Ghirano	Simulating the Horizontal Well Production Performance and fore- casting recovery
3	Fareed Ahmed Daudpota	Optimization of Production rate by using perforating techniques: A software approach case study
4	Nadir Ali Khoso	Optimizing well productivity while controlling sand production
5	Hafiz Azizullah Shaikh	Use of air injection to enhanced oil recovery for heavy oil of upper Indus basin of Pakistan

6	Allah Bakhsh	Oxidation reaction kinetics during air injection into medium oil reservoirs
7	Zafarullah Abro	Characterization of Naturally fractured Carbonate Reservoir through Pressure Transient Analysis
8	Zeeshan Ali Lashari	Simulating the effects of water-shut off treatment by means of polymer gel injection in Lower Goru Formation
9	Bilal Shams Memon	Integrated optimization and production of gas condensate field by simulation
10	Aftab Ahmed	Estimation of Petro physical Properties of reservoir using Properm and Eclipse-100
11	Ubedullah Ansari	Microhole Drilling Techniques using micro instrumentation
12	Mr. Asadullah Memon	Modeling of a smart well completion in Multilateral Wells
13	Mr. Irshad Ali Gopang	Quantification and Characterization of sludge deposition in crude oil storage tanks
14	Mr. Faisal Memon	Stimulating the effects of water conning in fracture reservoir

B.E/ B.Sc. FINAL YEAR PROJECTS / THESIS Supervised at MUET Jamshoro, Pakistan

S#	Name of Student	Title of Research	Year of passing
1	Abdul Aziz (G.L)	Utilization of CNG in Transport	1993
2	Fareed Ahmed Daudpota (G.L)	Case Study for the Construction of High and Low Pressure Gas Transmission Pipeline	1995
3	(G.L)	Installation of Hydraulic Jet Pump as an Artificial Lift Method	1998
4	Masood Ahmed Abro(G.L)	Work-Over Operations	1998
5	Masood Ahmed Bhatti(G.L)	Effects of Water Flooding on Reservoir Behavior	1999
6	Shoukat Ali Baloach (G.L)	The Case Study of Oil Well Flowing Performance	2000
7	Abdul Wadood Zakhpail(G.L)	Well completion and Gas Well deliverability Testing	2001
8	Syed Hassan Raza Shah(G.L)	Case Study of Natural Gas Purification by Membrane Process at Qadirpur Gas Field	2001
9	Zohaib Channa(G.L)	Investigating the effect of Gravity, Viscosity, and capillary Pressure on Reservoir Fluid Flow	2008

10	Syed Fahad Iqbal(G.L)	Horizontal Well Performance in an Unconventional Reservoir through Simulation Perspective	2009
11	Shuaib Muhammad Laghari	A Comparative Study of Sindh Crude Oil Quality and its Geological Impacts	2009
12	Naeem-ul-Hassan Dehraj	Wellbore Modeling Using Sensitivity Analysis (A software Approach)	2009
13	Sandeep Kumar (G.L)	Case Study of Coiled Tubing Scale Removal through Well Intervention in Pakistan	2009
14	Zaheer Ahmed Jamali (G.L)	Economic Evaluation of Smart Well Completion	2009
15	Muhammad Mubeen-ur Rehman(G.L)	Modern Approach to real time Well Surveillance and Control	2010
16	Arslan Ahmed Khanzada Syed Ali Naqvi	Spontaneous Potential Logging with Information Technology (IT) Applications (Small Scale transformation of Technology)	2010
17	Shoib Ahmed Kalwar (G.L)	Design of fracture Stimulation for Tight Gas sands (A case Study)	2010
18	Najeeb Niaz Memon (G.L)	Advancement in Well Testing using Multiphase Flow meter by Vx Technology – Case study	2010
19	Rasheed Ahmed Shar (G.L)	Deliquification of N.Gas Wells & an Effective artificial lift selection strategy for the life of a Gas well with some liquid loading problem	2011
20	Santosh Kumar (G.L)	Comparison study of Intelligent and Dual well completion	2011
21	Syed Mohammad Raza Qasim (G.L)	Additional of oil recovery by Gas Recycling	2011
22	Ghulam Murtaza Abbasi (G.L)	CO ₂ sequestration and its use in EOR	2011
23	Shoib Memon (G.L)	To develop a small scale field development program using Integrated Production modeling- A Software approach	2011
24	Mansoor Ahmed Shar (G.L)	Simulation of Naturally Fractured Reservoir with Triple Porosity Model and Its application	2012
25	Najeebullah Lashari (G.L)	Production Optimization of Tight Gas Reservoir through Hydraulic Fracturing	2012
26	Waheed Ali Abro (G.L)	Well Test Analysis of Naturally Fractured Reservoirs	2012
27	Hizbullah Memon (G.L)	Simulation of Carbon Dioxide Flooding; A Software Based Study	2013

28	Rano Soomro (G.L)	Integrated Production Modeling an Asset for Designing Development Program of a Field-A case Study	2013
29	Sadam Hussain Channa (G.L)	Optimizing Gas Development by using Integrated Production Modeling (A Real Time Case)	2013
30	Umair Ali Khan (G.L)	Production Optimization using Nodal Analysis, A Software Approach	2013
31	Siddique Soomro (G.L)	Comparison between carbon dioxide flooding and Alkaline Surfactant Polymer Flooding	2014
32	Azizullah (G.L)	Performance Evaluation study of heated immiscible WAG and Normal immiscible WAG for IOR from dead oil reservoir	2014
33	Mansoor Bhutto (G.L)	Simulation of Naturally Fractured Reservoirs with comparison of Dual Porosity models to the Triple porosity models	2014

LIST OF NATIONAL & INTERNATIONAL PUBLICATIONS

01. **A.H.Tunio**, R.A.Kazi, H.R.Memon, “Laboratory Investigation of Air Injection Process for Depleted Light Oil Reservoirs”, Mehran University Research Journal of Engineering & Technology [ISSN 0254-7821] Volume 26, Number 3, July 2007, pp-251-260.
02. **A.H.Tunio**, M.K.Memon, H.R.Memon, “Oxidation of Light Crude Oil In Porous Media”. Mehran University Research Journal of Engineering & Technology [ISSN 0254-7821] Volume 27, Number 3, July 2008, pp-307-318.
03. M. K. Memon, **A. H. Tunio**, A. Leghari, “Petrographic Study From Core Plugs of Lower Goru Sandstones”. Mehran University Research Journal of Engineering & Technology [ISSN 0254-7821] Volume 27, Number 3, July 2008, pp-319-330.
04. M. K. Memon, **A. H. Tunio**, R.A.Kazi, “Permeability Response After Matrix Acidizing on Core Plugs of Lower Goru Formation”, Mehran University Research Journal of Engineering & Technology [ISSN 0254-7821] Volume 27, Number 4, October 2008, pp-451-462
05. **A.H.Tunio**, S.Q.Tunio, N.A. Ghirano, “Laboratory Investigation for In-Situ Combustion Process for Light Oil Reservoirs: Effect of Air Flux”. Mehran University Research Journal of Engineering & Technology [ISSN 0254-7821] Volume 27, Number 4, Oct., 2008, pp-463-472
06. **A.H.Tunio**, M.K.Memon, R.A.Kazi, “Effects of Pressure on Forward Combustion by Injecting Air into Light Oil Reservoir”, Mehran University Research Journal of Engineering & Technology [ISSN 0254-7821] Volume 28, Number 1, Jan 2009, pp-81-92
07. **A.H.Tunio**, A.H.Tunio, R.A.Memon, “Effect of Water Saturation on Reaction Kinetics in In-Situ Combustion”, Mehran University Research Journal of Engineering & Technology [ISSN 0254-7821] Volume 29, Number 1, Jan 2010, pp-169-180
08. **A.H.Tunio**, K. Harijan, S.A. Soomro, “Air Injection Low Temperature Oxidation Process for Enhanced Oil Recovery from Light Oil reservoirs”, Mehran University Research Journal of Engineering & Technology [ISSN 0254-7821] Volume 29, Number 2, April 2010, pp-337-346.
09. Shaheen Aziz, Suhail A.Soomro, **A.H.Tunio**, Imran Nazir¹ K.M.Qureshi¹ and Razia Begum, “Environmental & Health Hazards of Fly Ash and SO_x from FBC Power plant at Khanote” [ISSN-1996-918X] Pakistan Journal of Analytical Environ. Chemistry, Vol.11, No.2 (Dec. 2010) pp-56- 62
10. R. A. Memon, **A.H.Tunio**, Kanya lal, “Impact of Aspect Ratio and Solar Heating on Street Conyn Air Temperature”, Mehran University Research Journal of Engineering & Technology [ISSN 0254-7821] Volume 30, Number 1, January 2011, pp-105-116.
11. **A.H.Tunio**, H.R.Memon, Shaheen Aziz “Design and Operation of Laboratory Combustion Cell for Air Injection Into Light Oil Reservoirs: Potential Application In Sindh Field”. Mehran University Research Journal of Engineering & Technology [ISSN 0254-7821] Volume 30, Number 1, January 2011, pp-135-150.
12. Suhail A. Soomro, Shaheen Aziz, **A.H. Tunio**, Characterization of PMMA Polymer Particles by Light Diffraction Method- Effect of Monomer, Initiator and Dispersion Medium Concentration on Monodispersity”. Mehran University Research Journal of Engineering & Technology [ISSN 0254-7821] Volume 30, Number 2, April, 2011, pp-297-306.

13. Fahad I. Syed, **A. H. Tunio**, Naveed A. Ghirano, “Compositional Analysis and Screening for Enhanced Oil Recovery Processes in Different Reservoir and Operating Conditions”. *International Journal of Applied Science and Technology, USA, Vol. 1 No.4; July 2011,pp-143-160*
14. S.Q.Tunio, **A.H.Tunio**, N.A.Ghirano. Z.M. El Adawy, “Comparison of Different Enhanced Oil Recovery Techniques for Better Oil Productivity”. *International Journal of Applied Science and Technology, USA, Vol. 1 No.5; September 2011,pp-143-153.*
15. S.Q.Tunio, **A.H.Tunio**, N.A.Ghirano, “Is it Possible to Ignore Problems Rising During Vertical Drilling? A Review”. *Research Journal of Applied Sciences, Engineering and Technology, Vol. 3 No.11; November 2011,pp- 1331- 1336*
16. Zeeshan Ali Lashari, **A.H.Tunio**, Ubedullah Ansari, Hafeez-ur-Rahman Memon. “SIMULATION STUDY OF WATER SHUT-OFF TREATMENT BY USING POLYMER GEL” AUSTRALIAN JOURNAL OF ENGINEERING AND TECHNOLOGY RESEARCH (AJMFR) Vol.1, Issue 2 – 2016. (www.australianresearchjournals.com.au)
17. Adnan Aftab Nizamani, Abdul Razak Ismail, Radzuan Junin, Abdul Qadeer, **A.H.Tunio**. “Synthesis of Titania-Bentonite Nanocomposite and its Applications in Water-Based Drilling Fluids” *Chemical Engineering Transactions Vol, 56 2017* (The Italian Association of Chemical Engineering online at www.aidic.it/cet)

CONFERENCE PUBLICATIONS

18. Jokhio, S.A., Tiab, D. / University of Oklahoma, Baladi, S., and **A.H.Tunio**/MUET, “Estimation Pseudo pressure function without Relative Permeability (K_r , S_w) for two and three phase gas condensate systems”. Paper SPE 77900 presented at the SPE 2002 Asia Pacific O/G. Conference and Exhibition held in Melbourne Australia, October 8-10, 2002.
19. Jokhio, S.A., Tiab, D. / University of Oklahoma, Baladi, S., and **A.H.Tunio**/MUET, “Pressure Transient Analysis in Gas Condensate Reservoirs Producing Under Three Phase Flow Conditions”. Paper SPE 77950 presented at the SPE 2002 Asia Pacific O/G. Conference and Exhibition held in Melbourne Australia, October 8-10, 2002.
20. **A.H.Tunio**, R.A.Kazi, H.R.Memon, “Laboratory Investigation for the Use of Air Injection Into Light Oil Reservoirs: Potential Application In Pakistan Field”. Paper presented at 3rd Annual Global Improved Oil Recovery Interactive Technology Workshop held in Athens. Greece, June 01-05, 2009.
21. Adnan Aftab, **A.H.Tunio**, “Comparison of Coal-Bed Methane and Natural Gas for the Solution of Energy Crisis”. Paper presented at 2nd International Conference Energy, Environment & Sustainable Development, organized by Energy & Environmental Research Group held at Mehran University of Engineering & Technology Jamshoro, Sindh, Pakistan. 27-29 February, 2012.
22. Asadullah Memon, Bilal Shams Memon, Faisal Hussain Memon, H.Z.Memon, **A. H.Tunio** “Challenges, Strategies, and Risk Management during Underground Coal Gasification (UCG)”, Paper Presented at 1st International Coal Conference, held at MUET, Jamshoro, Sindh, Pakistan, 11th – 13th November, 2013

- 23 Ubedullah Ansari, **A.H.Tunio**, Bilal Shams, H.R.Memon,“ Environmental Approach of Micro Hole Drilling (MHD) Technique for Hydrocarbon Recovery using Micro instrumentation” Paper presented at SPE Annual Technical Conference held in Islamabad, Pakistan, 26-27th Nov.2013
- 24 Ubedullah Ansari, **A.H.Tunio**, Bilal Shams, H.Z.Memon,“ Estimating the impact of Microbore Holes on Economy and Environment via Geomechanical Simulation” Paper presented at SPE Annual Technical Conference held in Islamabad, Pakistan, 26-27th Nov.2014
- 25 Zeeshan Ali Lashari, Asadullah Memon, Ubedullah Ansari, HUR Memon ,**A.H.Tunio**, “ Simulating the effects of Water Shut-off Treatment by Polymer Gel Injection” Paper SPE 174708-MS presented at SPE Annual Technical Conference held in Islamabad, Pakistan, 26-27th Nov.2014
- 26 Umair Ishtiaq, **A.H.Tunio**, Asif Zameer, Essa Tan “A brief review on the energy Potential and commercial prospects of Sedimental Natural gas hydrates (NGH)”. Paper presented at International conference on Integrated Petroleum Engineering and Petroleum Geosciences, KualaLampur, Malaysia, 15-17 August, 2016
- 27 Afaque Ahmed, Ismail Mohd Saaid , **A.H.Tunio**, Rashidah M Pilus , Mudassar Mumtaz.“INVESTIGATION OF DISPERSION STABILITY AND IFT REDUCTION USING SURFACE MODIFIED NANOPARTICLE: ENHANCED OIL RECOVERY” Paper presented at International Research Conference and Innovation Exhibition 2016. Persada Johor International Convention Center 19-20 October, 2016.