

Prof. Dr. Muhammad Abid

Education:

2000: PhD Mechanical Engineering, University of Strathclyde, Glasgow, Scotland, UK.

1992: BSc in Mechanical Engineering with Honours, University of Engg and Technology, Lahore, Pakistan

Positions:

2011– present: Dean and Professor. Faculty of Mechanical Engineering, GIK Institute, Topi, Pakistan.

2006-2011: Associate Professor. GIK Institute Topi, KPK, Pakistan

2001-2005: Assistant Professor. GIK Institute, Topi, KPK, Pakistan

1998-2000: Teaching Assistant. University of Strathclyde Glasgow, UK = 03 Years)

1999-2000: Consultant for Sell Expro Ltd UK.

1993-1997: Design and Development Engineer Heavy Mechanical Complex Ltd, Taxila, Pakistan

1992-1992: Maintenance Engineer. Rupali Polyester Pvt. Limited, Lahore, Pakistan

Synergetic Activities:

- 8 weeks in 2002 in University of Strathclyde, Glasgow, UK
- 8 weeks in 2007 in UIC Chicago and UIUC Urbana Champaign USA.
- 8 weeks in 2009 in UIC Chicago and UIUC Urbana Champaign USA.
- 3 weeks in 2011 in National University of Taiwan, Taiwan under NSF-NSC funded Program on Bio-Sensing and Bio-Actuation
- 4 weeks visit to Different Universities in UK under Exploratory and Knowledge Exchange Grant. Funded by British Council Pakistan (Dec 2012).
- Lyakhov School on Computational Materials Science. Evolutionary Structure Prediction Using the USPEX Code. Jointly organized by Guilin University of Electronics Technology, China and Stony Brook University USA. (1Week in 2013)
- Speaker on behalf of Asia as expert at the conference on Pressure Equipment Directive Requirements and ASME Code 14-15 November 2013 in Genova Italy
- Speaker in a special seminar organized by ASME Turkey Section as expert in the area of Bolted flanged pipe joints on 19th November 2013 in Istanbul Turkey
- Judged VIP Design Contest on Visually Impaired People in Asia Pacific Initiative (API) and participated as National delegate nominated by IMechE, 13-17 Sep 2013, Hong Kong
- HEC Best University Teacher Award 2011 from Pakistan
- HEC Outstanding Research Award 2005-06 in the category of Best Research Paper.
- MOSS Prize 2008 for Best Research in the area of Process Industry by IMechE UK.
- Pakistan Academy of Sciences Gold Medal Award 2006 in the field of Engineering and Technology in recognition of outstanding research work in the subject.

Selected Relevant Publications

1. Muhammad Abid, Adnan Aslam Noon, MuftoohurRehman. Water and Sediment Flow Simulations for Tarbela Reservoir and Tunnels. VDM VerlagDr.Muller, printed in the U.S.A. and in the U.K. 2011. ISBN: 978-3-639-34183-6.
2. Muhammad Abid, Kh. S. Karimov. Microhydro-power Systems. VDM VerlagDr.Muller, printed in the U.S.A. and in the U.K. 2010. 110 Pages. ISBN-13: 978-3-639-23336-0.
3. Kh.S.Karimov, Muhammad Abid, N.H.Karimova. Economics of Renewable Energy - Photovoltaic, Wind-Power, Biogas and Micro-Hydropower Systems. LAMBERT Academic Publishing. Printed in the USA, UK and Germany. 2012. ISBN: 978-3-8465-9784-2.
4. Muhammad Abid, Muftooh Ur RehmanSiddiqi. Multiphase Flow Simulations through Tarbela Dam Spillways and Tunnels Journal. of Water Resource and Protection. pp. 532-539. 2010
5. Muhammad Abid, Adnan Aslam Noon. Turbulent flow simulations through Tarbela Dam Tunnel-2. Journal of Engineering. Vol. 2/7, pp. 205-213. 2010.
6. Muhammad Abid, Adnan Aslam Noon, Hafiz Abdul Wajid. Simulations of turbulent flow through Tarbela Dam Tunnel 3. IIUM Engineering Journal. Vol. 11, No. 2, Pp. 201-224. 2010.

7. Masroor Hussain, Muhammad Abid, Mushtaq Ahmad, AshfaqKhokhar, ArifMasudA Parallel Implementation of ALE Moving Mesh for FSI Problems using OpenMP. Int J Parallel Prog. 2011.DOI 10.1007/s10766-011-0168-3.
8. Khasan.S. Karimov, Khakim M. Akhmedov, Muhammad Abid, Georgiy N. Petrov. Effective Management of Combined Renewable Energy Resource in Tajikistan. Science of the Total Environment (STOTEN). 10.1016/j.scitotenv.2013.05.095 (pp. 1-4). 2013.
9. Muhammad Abid, Adnan Aslam Noon, M.W. Al-Grafi, Hafiz Abdul Wajid. Erosion study of Tarbela Dam Tunnel-1. Iranian Journal of Science and Technology–Trans of ME. Vol. 38, No. M1, pp 253-261. 2014

Research Collaborators:

VERAX Ltd. Sweden, Univ. of Strathclyde, Glasgow, UK, University of Illinois Chicago, and UIUC at Urbana Champaign USA, North-western Polytechnical University China, Huaz Hong University China, Islamic University of Technology Bangladesh, University of Technology Troyes France, University of Malta, Malta, Manchester Metropolitan University, UK, National level universities in Pakistan, Research institutions and industry for joint projects, National Taiwan University.

Graduate Students Advisor:

PhD: Muhammad Siddique (GIKI), Kamran A Khan (GIKI), Iftikharul Islam (NUST+GIKI), MasroorHussain (GIKI), ShahidParvez (GIKI).

MS: More than 35 on Modeling and Simulation and Advanced Design and Manufacturing

Research Grants:

(A) International funded projects completed

- Asia Link Project CN/ASIA-LINK/024 (109093). A Framework Approach to Strengthening Asian Higher Education in Advanced Design and Manufacture. Euro 1,019,000. 2006~2009 as PM.
- Pak-US project: US\$512000. 'Development of computational mechanics infrastructure and human resources for advancing engineering design practices in Pakistani Industry'. 2006~2009 as PI.
- IDB Tech Grant. US\$146600. Islamic Development Bank for the purchase of research equipment for research infrastructure development is awarded in 2007.
- EPSRC Fast Track Award of £57K was granted in April 1999 for PhD studies.

(B) National funded projects completed

- 2007 - PSF Pak Rs. 1.25 million PSF/R&D/F-GIK/Engg (76).
- 2009 - PSF Pak Rs. 0.60 million PSF/R&D/F-GIK/Engg (102).
- 2007 - Industrial project. Pak Rs. 0.5 million
- 2009 - PSF Rs. 0.5 million PSF/R&D/F-GIK/Engg (107).
- PSF awarded Pak Rs. 0.6 million PSF/R&D/F-GIK/Engg (112). Project completed in 2012.