

Dr. Rashid Ahmed Khan
Associate Professor
Department of Civil Engineering
NED University of Engineering and Technology

Educational Qualifications

2010	Ph.D. - Civil Engineering (Majoring in Structural Engineering)	Heriot Watt University, Edinburgh, UK
2000	M.Sc. - Civil Engineering (Majoring in Structural Engineering)	N.E.D University of Engineering and Technology, Karachi, Pakistan
1996	B.E. - Civil Engineering	N.E.D. University of Engineering and Technology, Karachi, Pakistan

Publications

Journal Publication:

S.F.A. Rafeeqi, S.H. Lodi, **R.A. Khan**, N.M. Zafar, *An adaptive monitoring model for the ageing assessment of concrete containment vessel*, Ned University Journal of Research, Vol. VII, No. 1, 2010.

Refereed International Conference:

A.J. Sangi, **R.A. Khan**, I.M. May, *Behaviour of Damaged Reinforced Concrete Beams under Impact Loads*, in the Proceedings of the First International Conference of Protective Structures, Manchester, UK, 2010.

I.M. May, M. Roy, C. Lang, **R.A. Khan**, *The use of advanced carbon composites for the repair of fatigue cracks in steel structures*, in the Proceedings of the Advanced Composites in Construction (ACIC), Edinburgh, UK, 2009.

S.F.A. Rafeeqi, S.H. Lodi, **R.A. Khan**, *Bridge Database Management System (BDMS)*, in the Proceedings of 2nd International Conference on Construction in the 21st Century (CITC-II), "Sustainability and Innovation in Management and Technology", Hong Kong, December 2003.

Publications accepted and in process of finalization:

Journal Publications:

I.M. May, M. Roy, C. Lang, **R.A. Khan**, *Carbon composites for repair of fatigue cracks in steel structures*, selected by the refereeing committee of ACIC-09 and re-submitted after reviewer's comments to Proceedings of the ICE – Structures and Buildings, 2011.

I.M. May, M. Roy, C. Lang, **R.A. Khan**, *Fatigue crack growth rate in misaligned welded steel panels*, submitted to **Engineering Fracture Mechanics**, Elsevier, 2011.

I.M. May, **R.A. Khan**, M. Roy, C. Lang, *CFRP Patch Repair of Cracked Steel Structures with Welded Joints*, under review at **QinetiQ Ltd, UK**, for submission to Composite Structures/International Journal of Fatigue, 2011.

Ph.D. Thesis Title

Investigating the Strengthening of Steel Structures subject to Fatigue Loading, sponsored by *Overseas Research Studentship (ORS) and James Watt Scholarship*, full paid scholarship for three years (2006-2009) for PhD Studies at the School of Built Environment, Heriot-Watt University, Edinburgh, UK.

Research Interests

Design and Repairs of Steel and Concrete Structures
Repairs using Carbon Fibre Reinforced Polymer (CFRP).
Fatigue and Impact Loading on Structures.
Experimental testing/validation of concrete and steel structures.
Finite element modelling (FEA) based design, assessment and repairs of Structures.
Bridge designing and construction.
Software development for Structural Analysis.

International and National Assignments

National Co-ordinator for the *NED Center for Engineering Software Training (NED-CEST)*, ACECOMS Satellite Center in (Pakistan), affiliated with *Asian Center for Engineering Computations and Software (ACECOMS), A.I.T.- Bangkok*.

Coordinator for *Cowasjee Earthquake Study Center NED*, established in *Department of Civil Engineering, NED University of Engineering and Technology, Karachi, Pakistan* for the purpose of Disaster Mitigation in Earthquake prone areas of Pakistan.

Professional Affiliations

- ◆ Member Pakistan Engineering Council, Pakistan
- ◆ Member of The Institution of Structural Engineers, Scotland, UK
- ◆ Member EERI (Earthquake Engineering Research Institute), USA
- ◆ Member ACI (American Concrete Institute), USA