

CURRICULUM VITAE



Assoc. Prof. Ir. Dr. Raizal Saifulnaz Muhammad Rashid

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Education

1. PhD (Structural Engineering), 2008, University of Adelaide,
2. B.Eng.HONS (Civil Engineering), 1991, Universiti Teknologi Malaysia

Areas of Interest

1. Structural Engineering
2. Rehabilitation of reinforced concrete structures with Carbon Fiber Reinforced Polymer

Professional Qualification/ Membership/ Affiliation

1. Affiliate Member, American Society of Civil Engineers
2. Member, American Concrete Institute
3. Member, Structural Engineers Institute
4. Member, Portland Cement Association
5. Member, Board of Engineers Malaysia
6. Member, Institute of Engineers Malaysia
7. Member, Road Engineering Association of Malaysia
8. Member, Malaysian Structural Steel Association

Appointments

Position	Duration
1. Associate Professor, Department of Civil Engineering, Faculty of Engineering, UPM	1 Nov 2014 – to date
2. Head, Department of Civil Engineering, Faculty of Engineering, UPM	8 Sept. 2014 – to date
3. Senior Lecturer, Department of Civil Engineering, Faculty of Engineering, UPM	June 2008 to date
4. Civil Engineer, Pejabat Pembangunan dan Pengurusan Asset, UPM	1999-2008
5. Resident Engineer, EDP Consultant Sdn Bhd	1999

Publications

Journals (30 recent journals)

1. Farzad Hejazi, Mohammad Dalili Shoaee, Mohd Saleh Jaafar and **Raizal Saifulnaz Bin Muhammad Rashid**, 2015, Effect of Viscous Dampers on Yielding Mechanisms of RC Structures During Earthquake, Journal of Earthquake and Structures, IF1.23, Accepted
2. H.Abdi, F. Hejazi, M.S. Jaafar, I.A. Karim and **R. Saifulnaz**, 2015, Response Modification Factor for Steel Structure Equipped with Viscous Damper Device, International Journal of Steel Structures, Accepted
3. M. S. Mohd Amirul, **M. R. Raizal Saifulnaz**, N. A. Farah, S. Norazizi, 2014, Bond Slip Model of FRP-to-Concrete Surfaces, International Journal of Sustainable Materials and Structural Systems, Vol.1(4), pp332-350
4. **Raizal Rashid** and Riyad S. Aboutaha, 2014, Analytical Model for CFRP Strengthened Circular RC Columns under Elevated Temperature Computers and Concrete, An International Journal, Vol.13(3), pp1-13, IF0.94
5. Behzad Nematollahi, Yen Lei Voo and **Raizal Saifulnaz M.R.**, 2014, Structural Behavior of Precast Ultra-High Performance Fiber Reinforced Concrete (UHPC) Cantilever Retaining Walls : Part II – Full Scale Experimental Testing, KSCE Journal of Civil Engineering, Vol.19(6), pp1-15, IF0.38

6. Behzad Nematollahi, Yen Lei Voo and **Raizal Saifulnaz M.R.**, 2014 Structural Behavior of Precast Ultra-High Performance Fiber Reinforced Concrete (UHPFRC) Cantilever Retaining Walls : Part 1 – Analysis and Design Procedures and Environmental Impact Calculations (EIC) *KSCE Journal of Civil Engineering*, Vol.18(6), pp1-11, IF0.38
7. Behzad Nematollahi, **M.R. Raizal Saifulnaz**, and Yen Lei Voo, 2014, Sustainability Assessment of Precast Ultra-High Performance Fiber Reinforced Concrete (UHPFRC) Cantilever Retaining Walls *Research Journal of Applied Sciences, Engineering and Technology*, Vol.7(19), pp1-6, Scopus
8. Behzad Nematollahi, **Raizal Saifulnaz M.R.**, Mohd Saleh Jaafar and Yen Lei Voo, 2012, A Review on Ultra High Performance 'Ductile' Concrete (UHPdC) Technology, *International Journal of Civil and Structural Engineering* Vol.2(3), pp1003-1018.
9. O. Kohnehpooshi, J. Noorzaei, M.S. Jaafar and **Raizal Saifulnaz. M.R.**, 2011, Development of A Special Interface Element Between Brick and Plate Bending Elements, *Procedia Engineering* Vol.14, pp734-742, Scopus
10. O. Kohnehpooshi, J. Noorzaei, M.S. Jaafar and **M.R.R. Saifulnaz**, 2011, A New 3D Interface Element for Three Dimensional Finite Element Analysis of FRP Strengthened RC Beams, *Interaction and Multiscale Mechanics*, Vol.4(4), pp257-271, Scopus
11. O. Kohnehpooshi, J. Noorzaei, M.S. Jaafar, A.A. Abdulrazeq and **M.R. Raizal Saifulnaz**, 2011, 3D Numerical Models for Reinforced Concrete Components, *Materials Science and Engineering*, Vol.17(1), pp71-82, IF2.11
12. O. Kohnehpooshi, J. Noorzaei, M.S. Jaafar, A.A. Abdulrazeq and **M.R. Raizal Saifulnaz**, 2011, Three Dimensional Finite Element Modeling of Reinforced Concrete Beams, Using Lagrangian and Truss-Linkage Element, *Journal of Civil Engineering (Building and Housing)*, Vol.17(1): 1-11
13. Omid Kohnehpooshi, Mohd Saleh Jaafar, Jamaluddin Noorzaei and **Raizal Saifulnaz Muhammad Rashid**, 2010, Three Dimensional Finite Element Simulation of Reinforced Concrete Beams Post-tensioned in Shear Region, *KCSE Journal of Civil Engineering*, Vol.15(6), pp1081-1090, IF0.586
14. Algorafi, M.A., A.A.A. Ali, M.S. Jaafar, I. Othman, M.P. Anwar and **R. Rashid**, 2009, Effect of Torsion on Externally Prestressed Segmental Concrete Bridge with Shear Key, *American J. of Engineering and Applied Sciences*, Vol.2(1), pp54-60
15. Oehlers, D.J., **Rashid, R.** and Seracino, R., 2008, IC Debonding Resistance of Groups of FRP NSM Strips In Reinforced Concrete Beams, *Construction and Building Materials*, Vol.22(7), pp1574--1582
16. **Rashid,R.**, Oehlers, D.J. and Seracina, R., 2008 IC Debonding of FRP NSM and EB Retrofitted Concrete : Plate and Cover Interaction Tests. *Journal of Composite for Construction* , Vol.12(2), pp160--167.
17. Seracino, R., **Raizal Saifulnaz, M.R.**, and Oehlers, D.J., 2007, Generic Debonding Resistance of EB and NSM Plate-To-Concrete Joints, *Journal of Composite for Construction*, Vol.11(1), pp62--70

Conference Proceedings (30 recent Conference Proceedings)

1. M.Seracino, R., Oehlers, Deric John and **Raizal Saifulnaz, M.R.**, Towards a Generic Model of The Intermediate Crack Debonding Resistance of Plates Adhesively Bonded to Concrete, *Proceeding of The International Symposium on Bond Behaviour of FRP Structures*, 7-9 December 2005. Hong Kong, China

Books (If any)

Chapter in Books (If any)

1. Raizal Saifulnaz Muhammad Rashid and Dahlia Zawawi, 2011, It All Came Down: Case Study: A New Teaching-Learning Method in Civil Engineering, UPM Press, Serdang,. (ISBN-978-967-344-244-9)

Research Grants

No	Project Title	Amount (RM)	Year	Source of Fund
1.	Investigation on Fiber Reinforced Polymer Plated Structures Research University Grants Scheme	30,000	2009-2011	RUGS
2.	Flexural and Shear Capacity of Fiber Reinforced	50,000	2009-	FRGS

	Polymer Strengthened Reinforced Concrete Structures		2011	
3.	Investigation of CFRP Strengthened RC Columns under Humid and Elevated Temperature Conditions	93,000	2013-2015	FRGS
4.	Development of New Analytical Model for Carbon Fiber Reinforced Polymer Strengthened Reinforced Concrete Circular Columns Under Humidity and Temperature Exposure	122,000	2015-2017	PUTRA GRANT

Awards/Recognition (Current)

No.	Name of awards	Title	Award Authority	Award Type	Year
1.	2000 Excellence Award in Service	-	UPM	University	2001
2.	2001 Excellence Award in Service	-	UPM	University	2002
3.	2002 Excellence Award in Service	-	UPM	University	2003
4.	Award for PhD studentship in University of Adelaide, Australia.	-	UPM	University	01/06/2003 – 01/01/2007
5.	2008 Excellence Award in Service	-	UPM	University	2009
6.	2008 Excellence Award in conjunction with Appreciation and Quality Day, Engineering Faculty, UPM	-	UPM	University	2009
7.	2009 Excellence Award in conjunction with Appreciation and Quality Day, Engineering Faculty, UPM	-	UPM	University	2010
8.	Silver Medal	Development of Numerical 3D Finite Element Code F to Simulate Structural Response of Reinforced and Prestressed Concrete Bridges	UPM Invention, Research and Innovation 2010 Exhibition	University	20-22 July 2010
9.	2010 Excellence Award in Service	-	UPM	University	2011
10.	2010 Excellence Award in conjunction with Appreciation and Quality Day, Engineering Faculty, UPM	-	UPM	University	2011
11.	Award for Post Doctoral fellowship in Syracuse University, Syracuse, New York.	-	Ministry of Higher Education (MOHE)	National	2011





12.	2011 Excellence Award in conjunction with Appreciation and Quality Day, Engineering Faculty, UPM	-	UPM	2012
11.	PI20122000681 (Pending)	Elastomeric Isolator using multilayer CFRP Rubber Bearing as an alternative to steel plates.		National 2012

Professional Services/Consultation

No	Year	Title	Authority	Amount
1.	2009	Cadangan Menaiktaraf Bangunan Sedia Ada 'Supercritical Fluid-SFC' Fakulti Sains dan Teknologi Makanan, Universiti Putra Malaysia	Universiti Putra Malaysia	-
2.	2009	Projek Menaiktaraf Dewan Makan Kolej Pendeta Zaaba, Universiti Putra Malaysia.	Universiti Putra Malaysia	-
3.	2009	Geotechnical and Structural Assessment to Property on Lot 331 Seksyen 14 at Jalan 51A/223 Petaling Jaya, Selangor Darul Ehsan (Subaru 3S Center)	Subaru Malaysia	-
4.	2009	Design and planning for 4pgrade works of Sultan Abdul Samad Building for Ministry of art and culture Kuala Lumpur	Ministry of Art and Culture Kuala Lumpur	-
5.	2009	Build a Private Hospital on Lot PT 17482, Desa Parkcity, Mukim Batu, Wilayah Persekutuan, Kuala Lumpur for Sime Darby Medical Center Sdn. Bhd	Sime Darby Medical Center Sdn. Bhd	-
6.	2010	Concrete Compressive Strength and X-Ray Diffractometer (XRD) tests for Malaysian Institute of Road Safety Research (MIROS)	Malaysian Institute of Road Safety Research (MIROS)	RM 10,000.00

Student Supervision

PhD (Main Supervisor)

No.	Name	Title	Status
1.	Ruqayyah Ismail (GS41885)	Biomimicry Study of Bamboo Mechanical Properties in Reinforcing Circular Hollow Concrete Column	On Going
2.	Azmi Mohammad @Hassan	Smart Circular SMA Based Rubber Bearing Using Carbon Fiber Reinforced Polymer (CFRP) for Earthquake Isolation System	On Going

MS with thesis (Main Supervisor)

No.	Name	Title	Status
1.	Behzad Nematollahi	Enhancing dHUPC ductile high performance	Graduated

No.	Name	Title	Status
	(GS26016)	concrete	

MS without Thesis (Main Supervisor)

No.	Name	Title	Status
1.	Roziana Mahmood (GS18567)	Improving Intermediate Crack Debonding Resistance Equation of Externally Bonded and Near Surface Mounted Plate to Concrete Joint	Graduated
2.	Mohd Zawawi Zakaria (GS37233)	Structure Assessment, Rehabilitation and Reconstruction	Graduated
3.	Mohd Zuwairi Samsudin (GS37447)	Humidity Effects on Reinforced Concrete Strengthened with CFRP	Graduated
4.	Alireza Payesteh (GS34930)	Thermal Expansion in Circular Column Wrapped with CFRP Sheet	Graduated
5.	Alireza Payesteh (GS34930)	Thermal Expansion in Circular Reinforced Concrete Column Strengthened with CFRP	Graduated
6.	Tok Yee Lei (GS37218)	Behavior of Bracing and Braced Core System in Curve Tall Buildings Frames Under Wind Loads	Graduated
7.	Mohammed Keiss Ali (GS36531)	Compressive Membrane Action in Box Ginder Segment	Graduated
8.	Saroosh Abbasi (GS34405)	Humidity Effect on Reinforced Concrete Beam Strengthened with CFRP	Graduated
9.	Mohd Zuwairi Samsuddin (GS37447)	Humidity Effect on Reinforced Concrete Structures Strengthened with CFRP	Graduated
10.	Mohd Zawawi Zakaria (GS37233)	Structures Assessment, Rehabilitation and Reconstruction	Graduated
11.	Azmi Mohammad (GS35448)	Earthquake Elastomeric Isolation System Using Multilayer CFRP Rubber Bearing As An Alternative to Steel Plate	Graduated
12.	Nadia Binti Azmi (GS37350)	Comparison between BS5400 (BD37/01) and EUROCODE CEN1991-1 and EN1991-2)	On Going
13.	Hussein Ahmed (GS37519)	Investigation of Optimum Size of Core Structure with Cantilever Beam System	On Going
14.	Amin Ali Ali (GS38412)	Finite Element Modeling of Behavior of Sea Sand RC Beam Strengthened with GIFRP	On Going
15.	Ebrahim Abdulmalek Al-Qalisi (GS37867)	Pile Cap Analysis and Design	On Going