

CURRICULUM VITAE



DR NORHAIDA BT AB RAZAK

Faculty of Mechanical Engineering,
Universiti Malaysia Pahang,
26600 UMP, Kuantan,
Pahang, MALAYSIA.

Tel: +609-4246271, Fax: +609-4246200

Email: norhaida@ump.edu.my, norhaidaabrazak@gmail.com

Academic Qualifications

- Ph.D Mechanical Engineering, Imperial College London, 2018
- M.Eng. Mechanical Engineering (Mechanics), UKM, 2009.
- B.Eng. (Hons) Mechanical Engineering, UNITEN, 2004.

Working Experiences / Appointment

- Lecturer at Faculty of Mechanical Engineering, Universiti Malaysia Pahang, May 2009 ~ Present
- Tutor at Faculty of Mechanical Engineering, Universiti Malaysia Pahang, June 2007~ May 2009
- Science Officer at Institute of Advanced Technology (ITMA) UPM, Jan 2005 ~ May 2006
- Research Assistant at Universiti Tenaga Nasional , Aug 2004 ~ Nov 2005

Research Area / Research Interest

- Creep, Fatigue, Creep-Fatigue, Fracture Mechanics, Fracture Toughness, Material Characterization

Research Project/ Grants

1. UMP Grant , *Failure Prediction of Non Coplanar Cracks in API 5L Spec Line Pipe*, RDU 120311, RM 25K (April 2012 – March 2014), Project Leader
2. UMP Grant , *Local Failure Criterion Model for Ductile Failure of API Steel Pipes*, RDU 110370, RM 29K (Sept 2011-Sept 2013), Research Member
3. UMP Grant “ *Modelling and Analysis of Modular wind turbine system*”, RDU 100325, RM26K (May 2010~October 2011),Research Member
4. Fracture Toughness of Railway Track Materials, 2009 (Master – Final Project)

Professional Qualification / Memberships / Experiences

1. Graduate Member of Board of Engineers Malaysia
2. Journal editor and reviewer, Journal of Automotive Engineering (IJAME), UMP 2018
3. Journal reviewer, Journal of Mechanical Engineering and Sciences (JMES), UMP, 2018

4. International conference proceeding reviewer, 2nd International Conference on Mechanical Engineering Research(ICMER), 2011

Teaching Experience

- Statics
- Engineering Material
- Strength of Material
- Engineering Mechanics Lab
- Computer Aided Design (Solidwork)

List of Publications

1. **N.Ab Razak**, C.M.Davies and K.M Nikbin, *Testing and Assessment of Cracking in P91 steels under Ceep-Fatigue Loading Condition*, Engineering Failure Analysis, 2018 Vol: 84, Pages: 320-330, ISSN: 1350-6307
2. Cacciapuoti B, Sun W, McCartney DG, Morris A, Lockyer S, **N.Ab Razak**, Davies CM, Hulance Jclose, *An evaluation of the capability of data conversion of impression creep test*, Materials At High Temperatures, 2017, Vol: 34, Pages: 415-424, ISSN: 0960-3409
3. **Ab Razak N**, Davies CM, Nikbin KM, *Creep-fatigue crack growth behaviour of P91 steels*, 21st European Conference on Fracture (ECF), 2016, Publisher: Elsevier Science BV, Pages: 855-862, ISSN: 2452-3216
4. **N.A Razak**, N. A. Alang, and M. A. Murad. *Burst Pressure Prediction of Multiple Cracks in Pipelines*. IOP Conference Series: Materials Science and Engineering, 2013, Vol. 50. No. 1. IOP Publishing.
5. Alang, N. A., **N. A. Razak**, and M. R. Zulfadli. *The influence of gouge defects on failure pressure of steel pipes*. IOP Conference Series: Materials Science and Engineering. 2013. Vol. 50. No. 1. IOP Publishing.
6. Alang, N. A., and **N. A. Razak**. *Finite element analysis on burst pressure of steel pipes with corrosion defects*. 13th International Conference on Fracture (ICF13), 2013.
7. Alang, N. A., **N. A. Razak**, and A. S. Sulaiman. *Determination of burst pressure of API Steel pipes using stress modified critical strain model*. IOP Conference Series: Materials Science and Engineering. 2012. Vol. 36. No. 1. IOP Publishing.
8. **N.A Razak**, A. Sulaiman, and N. Alang. *Interaction Effect of Pressurized Lamination Pipe by using 2D Finite Element Analysis*. IOP Conference Series: Materials Science and Engineering. 2012. Vol. 36. No. 1. IOP Publishing.
9. N.A.Alang, **N.A. Razak**, A.K Miskan, *Effect of Surface Roughness on Fatigue Life of Notched Carbon Steel* ,International Journal of Engineering and Technology, Vol 11,No 01 (2011)
10. **N.A. Razak**, N.A Alang, A.S Sulaiman, *Effect of Crack Size of Pressurized Lamination Pipe by using Finite Element Analysis*, Malaysian Technical Universities International Conference on Engineering and Technology, No. 14 (2011)

11. Sajuri, Z., Alang, N. A., **Razak, N. A. A.**, & Aziman, M. A. *Fracture Toughness And Fatigue Crack Growth Behavior of Rail Track Material*. In Key Engineering Materials. 2011 Vol. 462, pp. 1109-1114. Trans Tech Publications.

List of Conference Presentations / Course Attended

Conferences

1. Creep-fatigue crack growth behaviour of P91 steels, **21st European Conference on Fracture (ECF21)**, 20-24 June 2016, Catania, Italy
2. A Finite Element Model to Predict the Burst Pressure of Steel Pipes Containing Collinear Cracks, **8th Structural Integrity and Fracture**, , 11-12 July 2013, Melbourne Australia
3. Burst Pressure Prediction of Multiple Cracks in Pipelines, **2nd International Conference on Mechanical Engineering Research(ICMER)**, 1-3 July 2013, Bukit Gambang Resort City, Kuantan, Pahang, Malaysia
4. *Finite Element Analysis on Burst Pressure of Defective Steel Pipes*, **19th European Conference on Fracture (ECF19)**, 26 Aug -1 Sept 2012, Kazan Russia.
5. *Interaction Effect of Pressurized Lamination Pipe by using 2D Finite Element Analysis*, **1st International Conference in Mechanical Engineering Research**, (2011)
6. N.A. Razak, N.A Alang, A.S Sulaiman, Effect of Crack Size of Pressurized Lamination Pipe by using Finite Element Analysis, **Malaysian Technical Universities International Conference on Engineering and Technology**, No. 14 (2011)

Courses

1. Structural Integrity and Component Life Assessment 29th June – 1st July 2016 at Imperial College, United Kingdom
2. Short Course on Steel Structure Design to Eurocode3, 16 -17 March 2013 at Dewan Fatimah Universiti Malaysia Pahang
3. Seminar on Damage and Fracture Mechanics 3-5 June 2013 at Faculty of Mechanical Engineering Universiti Malaysia Pahang
4. LS DYNA Short Course 8-11 July 2012 at Dyna Forming Engineering & Technology Sdn Bhd Taman Megah Shah Alam