


CURRICULUM VITAE

AHMMAD SHUKRIE BIN MD YUDIN		
Date of Birth: 13 th February 1986 Place of Birth: Kuantan, Pahang, Malaysia NRIC : 860213-06-5263 Status : Married	Contacts: Mobile: +6019 993 1005 Office : +609 424 6378 Email : ahmmadshukrie@ump.edu.my	
Affiliation: Lecturer, Faculty of Mechanical Engineering, Universiti Malaysia Pahang, 26600, Pekan, Pahang	Research Interests: Drying, Fluidization, Fluidized Bed Combustor, Swirling Flow, Fluid Flow, Renewable Energy, Tidal Energy, Biomass, Non-Premixed Combustion, CFD Combustion, CFD Fluid Flow	
<i>EDUCATIONAL BACKGROUND</i>		
UNIVERSITI MALAYSIA PAHANG, MALAYSIA Programme: PhD Mechanical Engineering Thesis: <i>Performance Characteristics of Air Distributor Designs in a Fluidized Bed</i>	UNIVERSITI TEKNOLOGI PETRONAS, MALAYSIA Programme: MSc Mechanical Engineering by Research Thesis: <i>Studies on the Residence Time Distribution of Solids in a Swirling Fluidized Bed</i>	
2005-2009 UNIVERSITI TEKNOLOGI PETRONAS, MALAYSIA Programme: B. Eng. (Hons) Mechanical Engineering	2004-2005 KOLEJ MATRIKULASI PAHANG Field of Study: Science & Technology	
1999-2003 SMK PAYA BESAR, KUANTAN, PAHANG	1993-1998 SK SUNGAI ISAP, KUANTAN, PAHANG	
<i>WORKING EXPERIENCES</i>		
NOVEMBER 2016-Current UNIVERSITI MALAYSIA PAHANG Lecturer Fakulti Kejuruteraan Mekanikal, Teaching Subjects: DMM1532 Statics BMM3531 Thermodynamics Lab	APRIL 2016-JULY 2016 UNIVERSITI TEKNOLOGI MALAYSIA, SKUDAI Research Assistant High Speed Reacting Flow Research Laboratory (HiREF) Fakulti Kejuruteraan Mekanikal Topic: CFD Combustion, Non-premixed Combustion, Biogas	
2012-2013 UNIVERSITI MALAYSIA PAHANG Part Time Lecturer Fakulti Kejuruteraan Mekanikal, Teaching Subjects: BMM1081 Mechanical Laboratory II BMM3611 Manufacturing Process	2009-2011 UNIVERSITI TEKNOLOGI PETRONAS Tutor Mechanical Engineering Department, Teaching Subjects: MBB2063 Fluid Mechanics MBB3033 Heat Transfer	
<i>INDUSTRIAL EXPERIENCES</i>		
Company	BASF PETRONAS Chemicals Sdn. Bhd., Gebeng, Kuantan, Pahang	
Department	Technical Competence Project Department (TCP)	
Position	Technical Project Engineer (Trainee)	
Duration	3 rd December 2007 – 7 th July 2008	
<i>RESEARCH AND SPECIAL PROJECTS</i>		
<ol style="list-style-type: none"> Project Leader, Improved Drying Process of High Moisture Agricultural Products (Cocoa Bean and Black Paper) in a Swirling Fluidized Bed, RDU171110, UMP Seed-money, (January 2017-January 2018) FKM,UMP Bulletin Committee 2017/2018 Development and coordinator of 2017 UMP-UTP Energy Symposium http://energysymposium.ump.edu.my/ and Faculty of Mechanical (FKM) http://fkm.ump.edu.my/ website Researcher, Energy Auditing Initiatives in the Faculty of Mechanical Engineering Faculty, UMP, 2012 Secretary, Committee for Industry Liaison, Consultancy and Corporate Social Responsibility (HIPMAS), Faculty of Mechanical Engineering FKM, UMP Researcher, Energy Efficient Lightings for the Proposed 2.5 km Jogging Track in UMP Pekan Campus using LED Lights, a project initiated by JPPH UMP Researcher, Performance of Pontoon Tidal Current Conversion Type in Decentralized Rural Electrification, RDU research scheme of UMP (June 2012 – May 2014) Researcher, Design and Fabrication of a Lab-Scale Water Channel to Simulate Tidal and Current Wave for Hydropower Research members, An Exploratory Study on Tidal Energy for Electricity in Coastal Area, a grant by ERGS (June 2013-May 2015) Researcher, Development of a Small-Scale Low Pressure Drop Fluidized Bed Combustor to Burn Agricultural Residues, RDU research scheme of UMP (April 2014 – May 2016) Researcher, Performance Characteristics of Air Distributor Designs for Fluidized Bed Combustor, Post Graduate Research Scheme PGRS, research scheme of UMP (February 2014 – February 2016) 		

PUBLICATIONS

Published journals:

1. **Ahmmad Shukrie**, Shahrani Anuar and Ahmed Nurye Oumer, *Improvement on Particulate Mixing through Inclined Slotted Swirling Distributor in a Fluidized Bed: An Experimental Study*, *Advanced Powder Technology*, Vol. 27(5) (2016) pp. 2102-2111.
2. **Ahmmad Shukrie**, Shahrani Anuar, and Ahmed Nurye Oumer, *Air Distributor Designs for Fluidized Bed Combustor: A Review*, *Engineering, Technology & Applied Science Research*, Vol. 6 No. 3 (2016) pp. 1029-1034.
3. Nazani Nazri, Shahrani Anuar, Firdaus Basrawi, **Ahmmad Shukrie**, Aishah Safi, *Estimation of Energy Potential and Power Generation from Tidal Basin in Coastal Area of Malaysia*, *MATEC Web of Conferences*, Vol. 38, pp. 02006, (2016)
4. Aishah Safi, Shahrani Anuar, Daing Mohd Nafiz, Firdaus Basrawi, **Ahmmad Shukrie**, Mohd Nazani, *Feasibility of Pumped Hydro Storage for Energy Production and Flood Mitigation in Pekan*, *International Journal of Advanced and Applied Sciences*, 3(5) (2016), pp: 39-43
5. **Ahmmad Shukrie**, Shahrani Anuar and Azri Alias, *Heat Transfer of Alumina Sands in Fluidized Bed Combustor with Novel Circular Edge Segments Air Distributor*, (2015), *Energy Procedia*, 75, pp. 1752-1757.
6. Firdaus Basrawi, Cindy Olin, **Ahmmad Shukrie**, Hassan Ibrahim, *A Study on a Higher Heating Value of Agricultural Waste in Malaysia*, (2015), *Australian Journal of Basic and Applied Sciences*, 9(32) Special 2015, Pages: 191-196.
7. Tan, L. Y., Anuar, S., **Shukrie, A.**, Firdaus Basrawi, M., & Mahendran, M. (2014). Simulation Model to Assess Tidal Potential Energy in East Coast of Malaysia Using GIS. In *Applied Mechanics and Materials* (Vol. 679, pp. 106–111).
8. Kor, K. Y., Anuar, S., **Shukrie, A.**, Ibrahim, H., & Mahendran, M. (2014). Simulation Model to Assess Electrical Power Generation from Tidal Basin in Coastal Area of Malaysia. In *Applied Mechanics and Materials* (Vol. 679, pp. 101–105).
9. Arshad, A., Ibrahim, H., Anuar, S., & **Shukrie, A.** (2014). Study on the Application of Fit-Viability Framework for Renewable Energy Technology Evaluation. In *Applied Mechanics and Materials* (Vol. 679, pp. 237–240).
10. Arshad, A., Anuar, S., **Shukrie, A.**, & Hussin, R. (2014). CFD Study of Tidal Current Turbine Shroud for Initial Design Evaluation. In *Applied Mechanics and Materials* (Vol. 679, pp. 35–38).
11. **Yudin, A. S. M.**, Raghavan, V. R., & Narahari, M. (2011). A mathematical model for residence time distribution analysis in swirling fluidized bed. In *National Postgraduate Conference (NPC), 2011* (pp. 1–5).
12. **Shukrie, A.**, & Yudin, M. (2012). *Studies on the residence time distribution of solids in a swirling fluidized bed*. Master Thesis, Universiti Teknologi Petronas.

Published book chapter:

13. **Ahmmad Shukrie**, Shahrani Anuar and Azri Alias, *Regional Conference on Science, Technology and Social Sciences (RCSTSS 2014)*, Science and Technology, Springer Singapore (2016). Characterization and Development of Geldart's Fluidizing Velocity Profile of Sand Particles for the Application in Fluidized Bed Combustor (FBC), Chapter 14, pp. 147-156.

CONFERENCES ATTENDED

1. Aishah Safi, Shahrani Anuar, Daing Mohd Nafiz, Firdaus Basrawi, **Ahmmad Shukrie**, Mohd Nazani, *Feasibility of pumped hydro storage for energy production and flood mitigation in Pekan*, UTP-UMP Symposium on Energy System 2015, October 7, 2015, Perak, Malaysia
2. Nazani Nazri, Shahrani Anuar, Firdaus Basrawi, **Ahmmad Shukrie**, Aishah Safi, *Estimation of Energy Potential and Power Generation from Tidal Basin in Coastal Area of Malaysia*, UTP-UMP Symposium on Energy System 2015, October 7, 2015, Perak, Malaysia
3. **Ahmmad Shukrie**, Shahrani Anuar and Azri Alias, *Heat Transfer of Alumina Sands in Fluidized Bed Combustor with Novel Circular Edge Segments Air Distributor*, 7th International Conference on Applied Energy, 2015, March 28-31, Abu Dhabi.
4. **Ahmmad Shukrie**, Shahrani Anuar and Azri Alias, *Characterization and Development of Geldart's Fluidizing Velocity Profile of Sand Particles for the Application in Fluidized Bed Combustor (FBC)*, Regional Conference of Science, Technology and Social Sciences, November 23-25, 2014, Pahang, Malaysia.
5. **Ahmmad Shukrie**, Shahrani Anuar and Azim Arshad, *Experimental Investigation of Heat Transfer in a Bubbling Fluidized Bed for Geldart A and B Particles Near Onset of Turbulent Fluidization*, 11th International Conference on Fluidized Bed Technology, May 12-17, 2014, Beijing, China.
6. Azim Mohd Arshad, Hassan Ibrahim, **Ahmmad Shukrie**, Shahrani Anuar and Amir Razak, "Malaysia's Energy and Environmental Policies – Issues and Challenges Moving Towards a Green Nation by 2020", presented at the International Conference on Green Technology & Ecosystems for Global Sustainable Development, University of Tuzla, Bosnia & Herzegovina, 28 – 30 May 2012.
7. Azim Arshad, Shahrani Anuar, **Ahmmad Shukrie** and Rosdi Hussin, *CFD Study of Tidal Current Turbine Shroud for Initial Design Evaluation*, The 4th International Malaysia-Ireland Joint Symposium on Engineering, Science and Business 2014, June 25-26, 2014, Pulau Pinang, Malaysia.
8. Azim Arshad, Hassan Ibrahim, Shahrani Anuar and **Ahmmad Shukrie**, *Study on the Application of Fit-Viability Framework for Renewable Energy Technology Evaluation*, The 4th International Malaysia-Ireland Joint Symposium on Engineering, Science and Business 2014, June 25-26, 2014, Pulau Pinang, Malaysia.
9. K. Y. Kor, Shahrani Anuar, **Ahmmad Shukrie**, Hassan Ibrahim and M. Mahendran, *Simulation Model to Assess Electrical Power Generation from Tidal Basin in Coastal Area of Malaysia*, The 4th International Malaysia-Ireland Joint Symposium on Engineering, Science and Business 2014, June 25-26, 2014, Pulau Pinang, Malaysia.

10. L. Y. Tan, Shahrani Anuar, **Ahmmad Shukrie**, M. Firdaus Basrawi and Azim Arshad, *Simulation Model to Assess Tidal Potential Energy in East Coast of Malaysia by using Geographic Information System (GIS)*, The 4th International Malaysia-Ireland Joint Symposium on Engineering, Science and Business 2014, June 25-26, 2014, Pulau Pinang, Malaysia.
11. Azman Idris, Azim Arshad, Shahrani Anuar and **Ahmmad Shukrie**, *Tidal-Current Power Generation by Vertical Axis Underwater Turbine with Diffuser in Coastal Area of Peninsular Malaysia*, The 4th International Malaysia- Ireland Joint Symposium on Engineering, Science and Business 2014, June 25-26, 2014, Pulau Pinang, Malaysia.
12. **Ahmmad Shukrie**, Vijay Raj Raghavan and Marneni Narahari, “*Study of Multi-Parameter Two Layer Residence Time Distribution Model in Swirling Fluidized Bed Reactor*”, International Conference of Chemical and Industrial Biotechnology, Kuantan, Malaysia, 2011.
13. **Ahmmad Shukrie**, Vinod Kumar and Vijay Raj Raghavan, “*Novel Swirling Fluidized Bed System for Higher Process Efficiency*”, Engineering Design Exhibition, 2010, Universiti Teknologi PETRONAS, Malaysia.
14. **Ahmmad Shukrie**, Vijay Raj Raghavan and Marneni Narahari, “**A Mathematical Model for Residence Time Distribution Analysis in Swirling Fluidized Bed**”, Proceedings of National Postgraduate Conference NPC2011, Universiti Teknologi PETRONAS, Tronoh, Perak, Malaysia.

WRITING UP RESEACRCH GRANT PROPOSAL EXPERIENCES

1. Design and Fabrication of a Lab-Scale Water Channel to Simulate Tidal and Current Wave for Hydropower, UMP Grant, RDU120320, (June 2012-May 2014) RM35,000 (secured)
2. An Exploratory Study on Tidal Energy for Electricity in Coastal Area, Exploratory Research Grant Scheme, ERGS, a grant by KPT, RDU130620, (June 2013-May 2015) RM100,000 (secured)
3. Development of a Small-Scale Low Pressure Drop Fluidized Bed Combustor to Burn Agricultural Residues, UMP Grant, RDU140355 (April 2014 – May 2016) RM34,000 (secured)
4. Performance Characteristics of Air Distributor Designs for Fluidized Bed Combustor, Post Graduate Research Scheme PGRS, of UMP research grant for PHD Student, RDU140346 (February 2014 – February 2017) RM3,500 (secured)
5. Improved Drying Process of High Moisture Agricultural Products (Cocoa Bean and Black Paper) in a Swirling Fluidized Bed, UMP Seed-money, RDU171110 (January 2017-January 2018) RM5,500 (secured)
6. Baby Rich Food Fluidized Bed Dryer, 2017 Demand-Driven Innovation Project by Public-Private Research Network (PPRN) of KPT, RM48,000 (submitted)

BACHELOR DEGREE SUPERVISION

1. Mohd Rafi'uddin Bin Ramlan, MH09083, *Hydrogen Powered Lawnmower*, Completed September 2013
2. Muhammad Afiq Bin Saukit, MH09048, *Conceptual Study of Hydrogen Powered Wheelbarrow Using Fuel Cell*, Completed September 2013
3. Muhammad Nazree Bin Abd Malek, MH09047, *Conceptual Study of Hydrogen Powered Bicycle Using Fuel Cell*, Completed September 2013
4. Mohd Nor Aidil Bin Mohd Azlan, MH09040, *CFD Simulation in Fluidized Bed by Using Annular Trype Distributor*, Completed September 2013
5. Kong Deyi, MH09089, *CFD Simulation of Particle Mixing in a Fluidized Bed*, Completed September 2013
6. Tan Liang Yit, MA10037, *Simulation Model to Assess Tidal Potential Energy in East Coast of Malaysia by using Geographic Information System (GIS)*, Completed September 2014
7. Kor Kin Yang, MA10031, *Simulation Model to Assess Electrical Power Generation from Tidal Basin in Coastal Area of Malaysia*, Completed September 2014
8. Azman Bin Idris, MA11163, *Tidal Current Power in Malaysia: Case Studies Through Modelling and Simulation*, Completed September 2014
9. Syarifuddin Bin Hisyam, MA11128, *Estimation of Energy Potential and Power Generation from Tidal Basin in Coastal Area of Malaysia*, Completed September 2015
10. Sunny Wong Yeh Soon, MA11174, *Simulation Model to Assess Electrical Power Generation From Tidal Basins in West Coast of Peninsular Malaysia*, Completed September 2015
11. Fong Li Qi, MA11163, *Simulation Model to Access Electrical Power Generation From Tidal Basin in Coastal Area of Sabah and Sarawak*, Completed September 2015
12. Ammar Bin Abdul Hamid, MA11078, *Development of a Small-Scale Low Pressure Drop Fluidized Bed Combustor to Burn Agricultural Residues*, Completed September 2015
13. Muhammad Nasrullah Bin Rosli, MH10012, *Generating Electric Power Froom Flood in Malaysia*, Completed September 2015
14. Noveen Nico Alexandra Ng, MH12059, *Development of a Small-Scale Low Pressure Drop Fluidized Bed Combustor to Burn Agricultural Residues*, Completed September 2016
15. Hazwan Bin Kamal, MH12057, *Hydrodynamics of Fluidized Bed Combustor at Elevated Temperature with Direct Visualization Through the Transparent Heat Resistance Glass Column*, On-going 2017
16. Mahadzir Bin Nadzri, MH12033, *Experimental Investigation on Heat Transfer in a Small Scale Fluidized Bed Operated with Different Distributor Designs*, On-going 2017
17. Ahmad Ridzuan Bin Hasanuddin, MA11077, *Comparison of Heat Transfer in a Fluidized Bed Operated with Conventional and Inclined Distributors*, On-going 2017

JOURNAL REVIEWER

1. Applied Thermal Engineering, ISSN 1359-4311, ISI Indexed
2. International Journal of Technology, ISSN 2086-9614, Scopus Indexed
3. International Journal of Automotive & Mechanical Engineering, ISSN 2180-1606, Scopus Indexed
4. Journal of Mechanical Engineering & Sciences, ISSN 2231-8380, Scopus Indexed
5. Engineering Technology and Applied Science Research, ISSN 1782-8036, Web of Science ESCI Indexed

PROFESSIONAL MEMBERSHIP

Board of Engineer Malaysia, BEM Members (10060066026A)

AWARDS AND HONOURS

1. Silver Medal, *Honey Dewatering Machine*, Creation, Innovation, Technology & Research Exposition 2017, CITREX2017, March 2017, Kuantan, Pahang
2. Gold Medal, *Performance Characteristics of Air Distributor Designs for Fluidized Bed Combustor*, Advanced and Innovation Engineering Exhibition AINEX 2015, August 2015, Kuantan Pahang
3. Silver Medal, Best Research Paper Award, Simulation Model to Assess Electrical Power Generation from Tidal Basin in Coastal Area of Malaysia, The International Malaysia-Ireland Joint Symposium on Engineering, Science and Business 2014, June 25-26, 2014, Pulau Pinang, Malaysia.
4. Silver Medal, Best Research Paper Award, CFD Study of Tidal Current Turbine Shroud for Initial Design Evaluation, The 4th International Malaysia-Ireland Joint Symposium on Engineering, Science and Business 2014, June 25-26, 2014, Pulau Pinang, Malaysia.
5. Bronze Medal, Best Research Paper Award, Simulation Model to Assess Tidal Potential Energy in East Coast of Malaysia by using Geographic Information System (GIS), The 4th International Malaysia-Ireland Joint Symposium on Engineering, Science and Business 2014, June 25-26, 2014, Pulau Pinang, Malaysia.
6. Awarded Skim Latihan Akademik Bumiputera (SLAB) from Malaysian Ministry of Higher Education for Masters Study 2010-2012.
7. Awarded Skim Latihan Akademik IPTA (SLAI), Malaysian Ministry of Higher Education for PhD study Sept 2012-March 2016.
8. Silver Medal, Engineering Design Exhibition, Universiti Teknologi PETRONAS, Malaysia, 2010.
9. Best Presenter Award, Engineering Design Exhibition, Universiti Teknologi PETRONAS, Malaysia, 2010.
10. Dean's List Academic Awards, July 2007.