Dr. Azri Bin Alias
Senior Lecturer
Faculty of Mechanical Engineering,
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26600 Pekan, Pahang,
MALAYSIA.
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Academic Qualification

Dr. (Eng.) in Engineering, System Science Engineering, Okayama University of Science 2013
ME in Mechanical System Engineering, Okayama University of Science 2010
BE in Mechanical System Engineering, Okayama University of Science 2008

Brief Profile

Currently, Dr Azri Bin Alias is a Lecturer and A researcher at Faculty of Mechanical Engineering in Universiti Pahang Malaysia. He graduated from Okayama University of Science, Japan with a Dr. (Eng) in Sept 2013 and Degree of Master in Mechanical System Engineering in March 2010. He has currently shows interest in Renewable Energy, Fluidized bed, Thermo and Turbocharger research area.

Working Experiences / Appointment

2013 Nov – Now: Senior Lecturer, Universiti Malaysia Pahang
2015 Jan – CEO ENERGY SUSTAINABILITY FOCUS GROUP (ESFG)

Expert Area

Thermal Energy, Fluidized bed, Fluid Flow

Research Interest

Fluidized bed
Thermo,
Renewable Energy,
Nanofluid as thermo fluid

Research Project / Grant

Turbocharger Performance Map and Engine Modeling for Turbo Engine – LEADER
Fundamental Study of Thermo-Physical Properties and Forced Convection Heat Transfer Rate Bioglycol Based Nanofluids Coolant - MEMBER
Development of Algorithm for A Hybrid Solar And Off-Peak Air Conditioning System - MEMBER

Professional Qualification / Membership / Affiliation / Experience

BEM

Teaching Experience

2015 February – Now: Engineering Thermo Lab, Automotive Technology, Environment & regulatory Issues
2014 February – Now: Thermodynamics 1, Fluid Mechanics 1
2013 April – 2013 August: Teaching Assistant for Basic Computer 1 (Okayama University of Science)
2010 April – 2013 August: Research Assistant in Heat Transfer Laboratory (Okayama University of Science)
2010 April – 2012 February: Teaching Assistant for CAD 2 (Okayama University of Science)
2008 April – 2011 February: Teaching Assistant for Mechanical Experiment (Heat exchanger Experiment) (Okayama University of Science)

Post Graduate Supervision

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Degree / Final Year Supervision

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List of Publications

(Journals)

1. Examination of Various Estimation Equations for Drag Force by Using Immersed Boundary Method
   Kenya KUWAGI, Yu SHIMOYAMA, Azri BIN ALIAS, Hiroyuki HIRANO and Toshihiro TAKAMI
   Journal of Chemical Engineering of Japan, 45(1-3), 107-113, 2012-03

2. An Attempt of Immersed Boundary Method to Calculate Lift Force and Viscous Torque of a Particle
   Azri BIN ALIAS, Kenya KUWAGI, Yu SHIMOYAMA, Hiroyuki HIRANO and Toshihiro TAKAMI
   INFORMATION- An International Interdisciplinary Journal
3. Non-dimensionalization and three-dimensional flow regime map for fluidization analyses
   K Kuwagi, A Kogane, H Hirano, AB Alias, T Takami
   Chemical Engineering Science 119, 199-211, 2014

(International Procedings)

1. Numerical Simulation of Heat and Flow around Two Contacting Particles
   Kuwagi, K., Bin Alias, A., Bin Mokhtar, M.A. and Takami, T.
   The 7th JSME-KSME Thermal and Fluids Engineering Conference (2008), E223, p.136

2. Effect of surface roughness on heat and flow around two contacting particles using numerical simulation
   Azri bin Alias, Kenya Kuwagi, M. Arif bin Mokhtar and Toshihiro Takami
   22nd International Symposium on Chemical Engineering (2009) OE-10

3. Numerical Experiment on the Effect of Surface Roughness for Heat and Flow Around Two Contacting Particles
   Bin Alias A., Kuwagi K., Bin Mokhtar M. A., Takami T. and Horio M.
   Fluidization XIII (2010), pp. 591 – 598

4. Modelling of Thermal Contact Resistance Model for Two Contacting Particles
   Bin Alias A., Bin Mokhtar, M. A., Kuwagi, K., Hirano H. and Takami, T.
   The 21th International Symposium on Transport Phenomena, ISTP-21, (2010), Paper No. 219

5. Comparison of Fluidization Simulations Using Immersed Boundary Method and Discrete Element Method
   Kuwagi K., Bin Mokhtar M. A., Shimoyama Y., Bin Alias A., and Takami T.
   The 2nd Asian Conference on Innovative Energy & Environmental Chemical Engineering (ASCON-IEECE), (2010), pp. 57-62

6. Numerical Study of Drag Foce Acting on Dense Particles with Immersed Boundary (IB) Method
   Kuwagi K., Shimoyama Y., Shima T., Bin Mokhtar M. A., Bin Alias A., and Hirano H.
   The 2nd Asian Conference on Innovative Energy & Environmental Chemical Engineering (ASCON-IEECE), (2010), pp. 47-52

7. Study on Effects of Geldart's Powder Classification on Lateral Force Using IB Method
   Bin Alias A., Shimoyama Y., Kuwagi K., Hirano H., and Takami T.
   The 23rd International Symposium on Transport Phenomena, ISTP-23, (2012), Paper No. 190

8. Study on Relationship between Fluidization Characteristics and Lateral Force Acting on Two Contacting Particles
   Azri Bin Alias, Kenya Kuwagi, Hiroyuki Hirano, Toshihiro Takami and Jonathan Seville
   Fluidization XIV (2013)

9. DEM-CFD Simulations for Various Fluidizations
Kenya Kuwagi; Atsuto Kogane; Azri Bin Alias; Hiroyuki Hirano and Toshihiro Takami
4th International Chemical and Environmental Engineering Conference (2014)

(Local Proceedings)

2008年　第27回混相流学会年会講演会
接触二粒子周りおよび内部の熱と流れの数値シミュレーション
Heat and Flow Simulation in and around Two Contacting Particles
KUWAGI Kenya, Bin ALIAS Azri, Bin MOKHTAR Muhammad Arif, TAKAMI Toshihiro

2011年　第30回混相流学会年会講演会
シミュレーションと実験による流動層内の流れの可視化
Visualizations of flow in a fluidized bed by simulation and experiment
Azri bin Alias, Kenya Kuwagi, Yu Shimoyama, Toshihiro Takami, Hiroyuki Hirano

2012年　第18回流動化・粒子プロセッシングシンポジウム
接触二粒子に働く横方向力と粉体流動特性の関係に関する検討
Study on Effects of Geldart's Powder Classification on Lateral Force Using IB Method
Azri bin Alias, Kenya Kuwagi, Hiroyuki Hirano, Toshihiro Takami,

List of Books

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List of Consultancy

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List of Research / Project

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Awards / Research / Achievements

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Patents

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List of Course / Conference Attended

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