# TS. DR. NURIZZATUL ATIKHA BINTI RAHMAT

| PERSONAL DETAILS | |
|---|---|
| Senior Lecturer<br>Faculty of Mechanical & Automotive Engineering Technology<br>Universiti Malaysia Pahang, 26600 Pekan, Pahang, Malaysia | |
| Date of Birth | 27th November 1988 (36y 3mo) |
| Email address | izzatulatikha@umpsa.edu.my |
| Contact No. | (+60)16-7021405 or (+60)9-4246244 |
| Languages | Japanese, English, Malay |

| ACADEMIC CREDENTIALS | | |
|---|---|---|
| **DOCTOR OF PHILOSOPHY IN ENGINEERING** | | |
| Institution | Kyushu University, Kyushu, Japan | April 2013 – Dec 2017 |
| Discipline of Study | Doctor of Philosophy in Engineering: Interdisciplinary Graduate School of Engineering Sciences, IGSES. | |
| Major | Wind Engineering, Energy and Environmental Engineering. | |
| Research Title | Experimental Study on Aerodynamic Features of Boundary Layer Developed past Spires over Wall Surfaces. | |
| Scholarship | Ministry of Higher Education (MOHE), Malaysia | |
| **MASTER OF ENGINEERING** | | |
| Institution | Okayama University of Science, Okayama, Japan | April 2011 – March 2013 |
| Discipline of Study | Master of Engineering: Graduate School of Engineering. | |
| Major | Mechanical Systems Engineering, Measurement and Control System Department. | |
| Research Title | Prediction of Maximum Strain and Average Strain Rate in SHPB Specimens Based on Energy Analysis | |
| Scholarship | Ministry of Higher Education (MOHE), Malaysia | |
| **BACHELOR OF ENGINEERING** | | |
| Institution | Okayama University of Science, Okayama, Japan | April 2009 – March 2011 |
| Discipline of Study | Bachelor of Engineering: Mechanical System Engineering | |
| Major | Mechanical Systems Engineering, Measurement and Control System Department | |
| Research Title | Vibrating Reed Method for Determining the Viscoelastic Properties of Paperboard | |
| Scholarship | Yayasan Pelajaran Mara (YPM) Malaysia. | |
| **DIPLOMA IN MECHANICAL ENGINEERING** | | |
| Institution | Japanese Associate Degree (JAD) in UNISEL | May 2006 – Feb 2009 |
| Major | Mechanical Engineering | |
| Scholarship | Yayasan Pelajaran Mara (YPM) Malaysia. | |
| **SECONDARY SCHOOL** | | |
| Institution | Mara Junior Science College (MRSM) Muar, Johor | Jan 2004 - 2005 |

| WORKING EXPERIENCE | | |
|---|---|---|
| Institution | Universiti Malaysia Pahang Al-Sultan Abdullah | Aug 2018 – present (8 years) |
| Position | Senior Lecturer | |
| Faculty | Faculty of Mechanical and Automotive Engineering Technology (FTKMA) | |
| Company | MIKHA ACADEMY ENTERPRISE | August 2017 – present (9 years) |
| Position | Managing Director | |
| Company | Servicesource International Malaysia Sdn Bhd | Dec 2016 – July 2017 (8 months) |
| Position | Senior Executive (Japanese Speaker Role) | |

| AWARDS AND ACHIEVEMENTS | |
|---|---|
| Anugerah Cendekia Bitara - GOLD UMPSA 2023 Kategori Penerbitan Jurnal WoS | 28 Sept 2024 |
| Anugerah Cendekia Bitara 2023 Kategori Penerbitan Bab Buku 1 | |
| Anugerah Cendekia Bitara 2023 Kategori Penerbitan Bab Buku 2 | |
| Silver Medal in CITREX2024 at UMPSA Gambang | 2024 |
| Anugerah Pekerja Cemerlang UMP 2023/2024 | 2024 |
| Global Classroom Collaboration with Kyushu University (Prof. Dr. Ikegaya Naoki) | 23 Jan 2024 |
| Finalist Anugerah Akademik Universiti (AAU2023) | 2023 |
| Anugerah Pekerja Cemerlang UMP 2022/2023 | 2023 |
| Anugerah Pekerja Cemerlang UMP 2021/2022 | 2022 |
| Finalist Anugerah Akademik Harapan (AAU2022) | 2022 |
| Best Presenter Award in 6th ICMER2021 | 26 – 27 Oct 2021 |
| Anugerah Pekerja Cemerlang 2020/2021 | 2021 |
| Global Classroom Collaboration with Kyushu University (Prof. Dr. Ikegaya Naoki) | 11 Jan 2021 |
| Anugerah Pekerja Cemerlang 2019/2020 | 2020 |
| Bronze Medal in Citrex 2022 at UMPSA Gambang | 2020 |
| Finalist Anugerah Akademik Harapan (AAU2020) | 2020 |
| Finalist Anugerah Akademik Harapan (AAU2019) | 2019 |
| Anugerah Pekerja Cemerlang 2018/2019 | 2018 |
| Best Presentation in International CSS Conference, Kyushu, Japan | 2016 |
| Awarded SLAB Fellowship from Ministry of Higher Education and UMP to pursue Master Degree and Doctor of Philosophy (PhD) in Mechanical/Wind Engineering, at Kyushu University, Kyushu, Japan | 2011 |
| Awarded scholarship from Yayasan Pelajaran Mara (YPM) to pursue Bachelor Degree in Mechanical Systems Engineering at Okayama University of Science, Okayama, Japan | 2006 |
| Headmaster Excellent Award for Academic Achievement in MRSM | 2005 |
| Best Student Award in Sport | 2002 |
| Headmaster Award – 'TOKOH MURID PEREMPUAN' | 2000 |

| PROFESIONAL QUALIFICATIONS/AFFILIATIONS | |
|---|---|
| Professional Technologist (MBOT, PT24030291) | 2024 |
| Graduate Technologist (MBOT, GT23040214) | 2023 |

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|---|---|
| Senior Lecturer in FTKMA, UMPSA | 2018 |
| Graduate Engineer, Board of Engineer (BEM), Malaysia (1818-060000-GE-166266A) | 2016 |
| Student member, The Japan Society of Mechanical Eng., JSME | 2011 |

| **PROFESIONAL APPOINTMENTS** | |
|---|---|
| Reviewer Research and Scientific Innovation Society | 16 July - present |
| Academic Tutor for WBL program in Delta Aerospace Sdn Bhd | 30 June 2025 – 1 July 2026 (1 year) |
| Academic Panel for WBL program in Delta Aerospace Sdn Bhd | 30 June 2025 |
| Academic Panel for WBL program in MCUBE ENGINEERING SDN BHD | 26 Jan 2025 |
| CEO/Head of Energy Sustainability Focus Group (ESFG) in FTKMA, UMPSA | 2020 – 2024 (5 years) |
| Speaker for Program Semai Bakti with Yayasan Pelajaran Mara in Malaysia's Secondary Schools | 29 July – 16 Nov 2024 |
| Host for Global Classroom with Prof. Dr. Ikegaya Naoki, Wind-tunnel experiments for indoor and outdoor airflow around generic block arrays | 18 Jan 2024 |
| Reviewer for Journal of Applied Engineering Design and Simulation | 2024 |
| Internal Examiner for VIVA Master student, PMM17013 Luqman bin Abdul Halim | 18 July 2024 |
| Internal Examiner for VIVA PhD student, PMM16008 Ahmad Syazwan | 21 March 2024 |
| Speaker for ICFGS lecture series (iEEE) | 2023 |
| Chairman for Viva Master Student, Elnaz Youselfi, MML21006 | 28 July 2023 |
| Panel Penilai Dalaman for Internal Research Grant UMPSA | 2022 – present |
| Task Force for Self-Review Report 02 (SRR02) Document for FTKMA (15 April – 31 Dec 2022) | 15 April 2022 - present |
| Academic & Accreditation for Engineering Technology Programmes – Automotive in FTKMA, UMPSA | 2021 – present |
| UMPSA Representative for TVET FORUM MALAYSIA-CHINA | 2022 |
| Chairman for Symposium on Environment & Energy Systems, SEES22 | 2022 |
| UNIDO Representative and UMP Project Leader on the collaboration between UNIDO-UMP on the module development - Solar Thermal Engineering Design | 22 June 2022 |
| REPORTER (CEO ESFG) for FTKMA Annual Book | 11 Jan 2021 – 10 Jan 2022 |
| Tugas-Tugas Khas Di Ftkma | 1 Oct 2021 – 31 Mei 2022 |
| FTKMA Entrepreneurship Coordinator | 29 Dec 2021 |
| Coordinator Learning & Teaching 4.0 through Global Classroom | 7 July 2020 |
| Lecturer of Entrepreneurship UMPSA with Ukm-Cesmed | 28 Dec 2020 |
| JPSF (Jawatankuasa Pengajian Siswazah Fakulti) main Member | 2020 – 2024 |
| JPPIF (Jawatankuasa Penyelidikan Dan Pengembangan Ilmu) main Member | 2020 – 2024 |
| Editorial Board Member for Journal of Building and Environmental Engineering | 2020 – present |

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| Editorial Board Member for Journal of Aerodynamics and Wind Engineering, JAWE | 2020 – present |
| Curriculum & Examination Coordinator for Bachelor Tech. Automotive (BVA) FTKMA, UMPSA | 2019 – 2020 |
| ICMER Committee – Sponsorship | 2019 |
| Reviewer For Journal of Mechanical Engineering and Sciences, JMES | 2018 – present |
| Reviewer For International Journal of Automotive and Mechanical Engineering, IJAME | 2018 – present |
| Reviewer For Regional Conference on Mechanical and Marine Engineering, REMME. | 2018 – present |
| Judge For "Glider Challenge" During the Engineering Day, Triump | 2018 |
| Secretariat (Viva-Voce) For Postgraduate Student (Master's Degree), Shathiswara Rao A/L Subramaniam, | 22 Nov 2018 |
| VICE PRESIDENT of Malaysian Associates in Kyushu, Japan | 2014 – 2015 |
| VICE PRESIDENT of Aspiring Malaysian Rijal, AMIR for East Japan | 2012 – 2013 |
| VICE PRESIDENT of Malaysian Associates in Okayama, Japan | 2011 – 2012 |
| PRESIDENT of Okayama Muslimah, Okayama, Japan (2011/12) | |

| **MANAGERIAL EXPERIENCES (COURSE COORDINATOR)** | |
|---|---|
| **Degree**, BTD2123 Fluid Mechanics | Sem 2_2024/2025 |
| **Degree**, BTD1222 Dynamics | |
| **Degree**, BTD1222 Dynamics | Sem 1_2024/2025 |
| **Degree**, BTD1251 Mechanical Laboratory 2 | |
| **Degree**, BTD2123 Fluid Mechanics | Sem 2_2023/2024 |
| **Degree**, BTD2123 Fluid Mechanics | |
| **Degree**, BTD 1222 Dynamics | Sem 2_2022/2-023 |
| DRM 2313 Fluid Mechanics | |
| **Degree**, BMM 3521 Fluid Mechanics Lab | |
| **Degree**, BTD 1222 Dynamics | Sem 1_2022/2023 |
| **Diploma**, DMM 2533 Fluid Mechanics | |
| **Diploma**, DRM 2313 Fluid Mechanics | |
| **Master**, MME 6154 Advanced Thermodynamics (KMM & KMO) | Sem 2_2021/2022 |
| **Degree**, BMM 2513 Thermodynamics | |
| **Degree**, BMM 3521 Fluid Mechanics Lab (Flexi) | |
| **Master**, MME 6154 Advanced Thermodynamics (KMM) | Sem 1_2021/2022 |
| **Degree**, BMM 3531 Engineering Thermodynamics Lab | |
| **Degree**, BMM 2673 Thermodynamics | |
| **Degree**, BMM 2673 Thermodynamics | Sem 2_2020/2021 |
| **Degree**, BHA 2533 Fluid Mechanics | |
| **Degree**, BMM 2673 Thermodynamics (FLEXI) | |
| **Degree**, DMM 2533 Fluids Mechanics (Modular) | Sem 1_2020/2021 |
| **Diploma**, DMM 2533 Fluids Mechanics | Sem 2_2019/2020 |
| **Degree**, BMM 1553 Dynamics | |
| **Diploma**, DMM 2543 Thermodynamics | Sem 1_2019/2020 |
| **Diploma**, DMM 2533 Fluids Mechanics | Sem 2_2018/2019 |
| **Diploma**, DMM 2543 Thermodynamics | Sem 1_2018/2019 |

| TEACHING EVALUATIONS (e-PAT) | | |
|---|---|---|
| 94.8% | BTD 1223, Dynamics, **Degree**, 44 students, 2 credit hours, 8 contact hours | Sem 1_2024/2025 |
| 93.77% | BTD 1222 Dynamics, **Degree**, 61 students, 2 credit hours, 8 contact hours | |
| 93.98% | BTD 2123, Fluid Mechanics Lab, **Degree**, 28 students, 2 credit hours, 8 contact hours | Sem 2_2023/2024 |
| 93.27% | BTD 2123, Fluid Mechanics Lab, **Degree**, 28 students, 2 credit hours, 8 contact hours | |
| 90.65% | BTD 1222 Dynamics, **Degree**, 15 students, 2 credit hours, 8 contact hours | |
| 94.86% | BMM 3521 Engineering Fluids Mechanics, **Degree**, 4 students, 1 credit hours, 4 contact hours | Sem 2_2022/2023 |
| 89.87% | BTD 1222 Dynamics, **Degree**, 42 students, 2 credit hours, 8 contact hours | |
| 93.91% | DRM 2313 Fluids Mechanics, **Diploma**, 44 students, 3 credit hours, 4 contact hours | |
| 93.11% | DRM 2313 Fluids Mechanics, **Diploma**, 44 students, 3 credit hours, 4 contact hours | |
| 95.06% | BTD 1222 Dynamics, **Degree**, 39 students, 2 credit hours, 8 contact hours | Sem 1_2022/2023 |
| 92.65% | BMM 3521 Engineering Fluids Mechanics, **Degree**, 7 students, 1 credit hours, 4 contact hours | |
| 91.91% | DRM 2313 Fluids Mechanics, **Diploma**, 60 students, 3 credit hours, 4 contact hours | |
| 78.86% | DMM 2533 Fluids Mechanics, **Diploma**, 7 students, 3 credit hours, 4 contact hours | |
| 73.06% | DRM 1721 Mechanical Technology Lab, **Diploma**, 7 students, 1 credit hour, 4 contact hours | |
| 85.71% | MME 6154 Advanced Thermodynamics, **Master**, 6 students, 3 credit hours, 6 contact hours | Sem 2_2021/2022 |
| 100% | BMM 2513 Thermodynamics, **Degree**, 37 students, 3 credit hours, 6 contact hours | |
| 98.57% | BMM 3521 Engineering Fluids Mechanics, **Degree**, 30 students, 1 credit hours, 4 contact hours | |
| 85.71% | MME 6154 Advanced Thermodynamics, **Master**, 6 students, 3 credit hours, 6 contact hours | Sem 1_2021/2022 |
| 95.11% | BMM 2673 Thermodynamics, **Degree**, 39 students, 3 credit hours, 6 contact hours | |
| 93.11% | BMM 3531 Engineering Thermodynamics Lab (FLEXI), **Degree**, 3 students, 3 credit hours, 6 contact hours | |
| 93.11% | BMM 3531 Engineering Thermodynamics Lab, **Degree**, 58 students, 3 credit hours, 6 contact hours | |
| 92.59% | BMM 3521 Engineering Fluids Mechanics **Degree**, 30 students, 1 credit hours, 4 contact hours | |

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| 95.58% | BHA 2533 Fluid Mechanics, **Degree**, 15 students, 3 credit hours, 6 contact hours | Sem 2_2020/2021 |
| 94.90% | BMM 2673 Thermodynamics, **Degree**, 37 students, 3 credit hours, 6 contact hours | |
| 94.90% | BMM 2673 Thermodynamics (FLEXI), **Degree**, 9 students, 3 credit hours, 6 contact hours | |
| 89.14% | BMM 3531 Engineering Thermodynamics Lab, **Degree**, 32 students, 3 credit hours, 6 contact hours | |
| 85.71% | MME 6154 Advanced Thermodynamics, **Master**, 16 students, 3 credit hours, 6 contact hours | Sem 1_2020/2021 |
| 92.46% | DMM 2533 Fluids Mechanics, **Diploma**, 53 students, 3 credit hours, 6 contact hours | |
| 93.35% | BMM 1553 Dynamics **Degree**, 80 students, 3 credit hours, 6 contact hours | Sem 2_2019/2020 |
| 93.35% | BMM 1553 Dynamics FLEXI, **Degree**, 8 students, 3 credit hours, 6 contact hours | |
| 86.9% | DMM 2533 Fluids Mechanics, **Diploma**, 53 students, 3 credit hours, 6 contact hours | |
| 93.45% | BMM 1553 Dynamics **Degree**, 59 students, 3 credit hours, 6 contact hours | Sem 1_2019/2020 |
| 93.45% | BMM 1553 Dynamics FLEXI, **Degree**, 4 students, 3 credit hours, 6 contact hours | |
| 86.54% | DMM 2543 Thermodynamics, **Diploma**, 50 students, 3 credit hours, 6 contact hours | |
| 89.54% | DMM 2533 Fluids Mechanics, **Diploma**, 53 students, 3 credit hours, 6 contact hours | Sem 2_2018/2019 |
| 95.69% | BMM 1553 Dynamics **Degree**, 57 students, 3 credit hours, 6 contact hours | |
| 87.7% | BMM 3521 Engineering Fluids Mechanics **Degree**, 28 students, 1 credit hours, 4 contact hours | |
| 92.6% | DMM 2543 Thermodynamics, **Diploma**, 50 students, 3 credit hours, 6 contact hours | Sem 1_2018/2019 |

| **RESEARCH** |
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| RESEARCH INTEREST |
| Wind Tunnel Studies, CFD Fluid Flow, Wind Engineering, Urban Environment, Urban Climatology, Building Environmental Engineering. |

| **APPROVED GRANT AS PRINCIPAL INVESTIGATOR (PI)** | | |
|---|---|---|
| Budget | Details | Status |
| RM40,000 (max value) | **Project ID: RDU230340**<br>Title: Boundary Layer Wind Tunnel Experiments on Wake Flow Generated Past a Row of Quarter Elliptic-Wedge Spires with Rough Wall Surfaces.<br>Leader:<br>• Ts. Dr. Nurizzatul Atikha binti Rahmat (UMP)<br>Team Member: | Ongoing 01/09/2023 – 31/08/2025 |

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| | • Dr. Ahmad Faiz Mohammad (MJIIT)<br>• Dr. Ahmmad Shukrie Bin Md Yudin (UMP)<br>• Dr. Nor Atiqah Binti Zolpakar (UMP)<br>• Mr. Azim Bin Mohd Arshad (UMP) | |
| RM107,200 | Project ID: RDU1901208 (FRGS 2019)<br>Title: Assessment of The Wake Flow Mechanism of Spanwise Expansion Interference by Rough Wall Boundary Turbulence.<br>Leader:<br>• Ts. Dr. Nurizzatul Atikha binti Rahmat (UMP)<br>Team Member:<br>• Assoc. Prof. Dr. Sheikh Ahmad Zaki (MJIIT)<br>• Prof. Naoki Ikegaya (Kyushu Univ.)<br>• Assoc. Prof. Dr. Jolius bin Gimbun (UMP)<br>• Dr. Nurrina binti Rosli (UMP) | Ended<br>01/09/2019 – 31/11/2022 |
| RM36,500 | Project ID: RDU190375 (UMP)<br>Title: Wind Tunnel Experimental Study on Aerodynamic Interaction between Rough Wall Boundary Layer with Wake behind Vortices Generators.<br>Leader:<br>• Ts. Dr. Nurizzatul Atikha binti Rahmat (UMP)<br>Team Member:<br>• Assoc. Prof. IR. Dr. Mohd. Fadhil Bin Md Din (UTM)<br>• Assoc. Prof. Dr. Sheikh Ahmad Zaki (MJIIT)<br>• Dr. Azizuddin bin Abd Aziz (UMP)<br>• Assoc. Prof. Dr. Jolius bin Gimbun (UMP)<br>• Dr. Erny Afiza binti Alias (UMP) | Ended<br>15/08/2019 – 14/05/2022 |
| RM5,000 | Project ID: RDU181112 (UMP)<br>Title: Wind Tunnel Experimental Study on Aerodynamic Interaction between a Smooth and Rough Wall Boundary Layer with Wake Behind Single or Multiple Spires.<br>Leader:<br>• Ts. Dr. Nurizzatul Atikha binti Rahmat (UMP) | Ended<br>02/10/2018 – 01/10/2020 |

| **APPROVED GRANT AS TEAM MEMBER** | | |
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| Budget | Details | Status |
| RM24,000 | Project ID: RDU230338<br>Title: Heat Dissipation Performance of Fin Fiber Reinforced Polymer Heat Exchanger<br>Team Member:<br>• Dr. Azizuddin Bin Abd Aziz (PI, UMP)<br>• Prof. Dr. Wan Azmi Wan Hamzah (UMP)<br>• Ts. Dr. Nurizzatul Atikha binti Rahmat (UMP)<br>• Dr. Mohd Yusof bin Taib (UMP)<br>• Mr. Ahmad Basirul Subha bin Alias (UMP) | Ongoing<br>01/09/2023 – 31/08/2025 |

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| RM36,200 | Project ID: RDU230354<br>Title: Effect of the Geometry Design of the Pressure Drop for Forced Convection of Polydimethylsiloxane (PDMS) microchannel (MC) Heat Sink<br>Team Member:<br>• Dr. Nor Atiqah Binti Zolpakar (PI, UMP)<br>• Ts. Dr. Nurizzatul Atikha binti Rahmat (UMP)<br>• Dr. Mohd Yusof bin Taib (UMP)<br>• Mr. Ahmad Basirul Subha bin Alias (UMP) | Ongoing<br>01/11/2023 – 31/10/2025 |
| RM159,850 | Project ID: RDU (FRGS 2019)<br>Title: Formulation of Thermal Comfort Index for the Assessment of Heat-Illness Incident using Physio and Perception Analysis.<br>Team Member:<br>• Assoc. Prof. IR. Dr. Mohd. Fadhil Bin Md Din (UTM)<br>• Ts. Dr. Nurizzatul Atikha binti Rahmat (UMP)<br>• Prof. Dr. Shreeshivadasan A/L Chelliapan (UTM)<br>• Dr. Shazwin Binti Mat Taib (UTM)<br>• Dr. Malarvili Bala Krishnan (UTM)<br>• Dr. Eeydzah Aminudin (UTM)<br>• Dr. Lee Yee Yong (UMS)<br>• Dr. Nickholas Anting Anak Guntor (UTHM)<br>• Dr. Syaril Nizam Omar (USIM) | Ended<br>01/09/2019 – 31/05/2022 |
| RM103,804 | Project ID: Hitachi-Johnson Control Air-Conditioning with vot number 4B395<br>Title: Formulation of Thermal Comfort Index for the Assessment of Heat-Illness Incident using Physio and Perception Analysis.<br>Team Member:<br>• Prof. Dr. Sheikh Ahmad Zaki (MJIIT)<br>• Ts. Dr. Nurizzatul Atikha binti Rahmat (UMP)<br>• Prof. Dr. Hagishima Aya (Kyushu University, Japan)<br>• Prof. Dr Azli bin Abd Razak (UiTM)<br>• Dr Mohamed Sukri bin Mat Ali (MJIIT) | Ended<br>01/06/2019 – 31/05/2020 |
| RM28,450 | Project ID: RDU1803132<br>Title: Experimental Study of Drag Reduction Effect by Microbubbles via Particle Image Velocimetry<br>Team Member:<br>• Dr. Erny Afiza binti Alias (PI, UMP)<br>• Ts. Dr. Nurizzatul Atikha binti Rahmat (UMP)<br>• Dr. Muhammad Izhar bin Ishak (UMP)<br>• Dr. Ahmed Nurye Oumber (UMP)<br>• Dr. Fatimah Dzaharudin (UMP) | Ended<br>25/08/2018 – 24/11/2020 |
| RM37,100 | Project ID: RDU1803129<br>Title: Experimental Study of Nozzle Influence on Oil Mist Adhesion After Milling Process of Automotive Parts | Ended<br>25/08/2018 – 24/11/2020 |

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| | Team Member:<br>• Dr. Nurrina binti Rosli (PI, UMP)<br>• Ts. Dr. Nurizzatul Atikha binti Rahmat (UMP)<br>• Dr. Mohd Azmir bin Mohd Azhari (UMP)<br>• Dr. Rashiyah binti Abd Aziz (UMP)<br>• Dr. Izwan bin Ismail (UMP)<br>• Dr. Amiril Sahab bin Abdul Sani (UMP) | |

| **RESEARCH SUPERVISION** | | |
|---|---|---|
| **DOCTOR OF PHILOSOPHY (PhD)** | | |
| Type | Details | Status |
| Main SV | Name: Hayati binti Kiram<br>Institution: Universiti Malaysia Pahang (UMP), Pahang, Malaysia<br>Title: Assessment of Industrial Particulate Waste Exposure and Development of a Dust Collection System through Field Survey, Material Characterization, and Performance Benchmarking | Ongoing |
| | Name: Muhd Alif bin Adam<br>Institution: Universiti Malaysia Pahang (UMP), Pahang, Malaysia<br>Title: Assessment Of Spire-Induced Wakes Across Urban Flow Regimes | |
| | Name: Beuna Bardant<br>Institution: Universiti Malaysia Pahang (UMP), Pekan, Pahang, Malaysia<br>Title: Aerodynamic interaction between rough wall boundary layer with wake behind vortices generators | Deferred |
| Co – SV | Name: Mohd Amirul bin Abd Rahman<br>Institution: MJIIT, Universiti Teknologi Malaysia (UTM), KL, Malaysia<br>Title: Wall Pressure on Cubical Scale Model affected by Atmospheric Turbulent Flow | |
| | Name: Tan Chun Khai<br>Institution: MJIIT, Universiti Teknologi Malaysia (UTM), KL, Malaysia<br>Title: Effect of design parameters on the performance of vertical-axis wind turbine | Ongoing |
| **MASTER'S DEGREE** | | |
| Main SV | Name: Muhammad Arifuddin Fitriady<br>Institution: Universiti Malaysia Pahang (UMP), Pekan, Pahang, Malaysia<br>Title: Assessment of the Wake Flow Mechanism of Spanwise Expansion Interference Behind Spire by Smooth Wall Boundary Turbulence | Graduated |
| | Name: Kamil Khalili bin Haji Abdullah – MA18217 | Ongoing |

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|---|---|---|
| | Institution: Universiti Malaysia Pahang (UMP), Pahang, Malaysia<br>Title: Design and development of quasi-atmospheric boundary layer in an open loop wind tunnel with passive devices. | |
| | Name: Achmad Ryzal Piliang bin Yusrizal<br>Institution: Universiti Malaysia Pahang (UMP), Pahang, Malaysia<br>Title: Traditional Malay house flow pattern using smoke wire technique enhancement in small-scaled boundary layer wind tunnel | Ongoing |
| | Name: Zain Khalid<br>Institution: Universiti Malaysia Pahang (UMP), Pahang, Malaysia<br>Title: Spire-Induced Wakes Across Urban Flow Regimes: A Boundary Layer Wind Tunnel Study for Urban Climate-Responsive Design | Ongoing |
| | Name: Mohd Yousaf<br>Institution: Universiti Malaysia Pahang (UMP), Pahang, Malaysia<br>Title: Wind Tunnel Experiment on Aerodynamic Interactions of Wake Flow behind Three Arrangements of Quarter-Elliptic Wedge Spire under Distinct Flow Regimes with Rough Wall Boundary Layer | Ongoing |
| Co – SV | Name: Vikneshvaran A/L Tanabalam<br>Institution: MJIIT, Universiti Teknologi Malaysia (UTM), KL, Malaysia<br>Title: Reproducing Atmospheric Boundary Layer Inside Open Loop Wind Tunnel | Graduated |
| | Name: Fauzan Fahmi Mohamad Nora'eni<br>Institution: Universiti Teknologi Malaysia (UTM), Johor, Malaysia<br>Title: Formation of Thermal Comfort Index for The Assessment of Heat-Illness Incident Using Physiological Parameters | Graduated |
| | Name: Siti Norsyahira Binti Mohd Zahari<br>Institution: Universiti Malaysia Pahang (UMP)<br>Title: Effects of Nonlinear Acoustic Flow on The Heat Transfer Process In thermoacoustic System | Ongoing |
| | Name: Miko Hadi<br>Institution: MJIIT, Universiti Teknologi Malaysia (UTM), KL, Malaysia<br>Title: Experimental Investigation of Cross-Ventilation Attic Flow Under the Neutral Boundary Layer Effect | Ongoing |
| | Name: Nur Amira binti Mohd Pouzi<br>Institution: Universiti Malaysia Pahang (UMP) | Ongoing |

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| | Title: Experimental Study of Drag Reduction Effect by Microbubbles via Particle Image Velocimetry | |
| | Name: Muhd Syafiq Mohd Wahidan<br>Institution: Universiti Malaysia Pahang (UMP)<br>Title: Drying Model of Oyster Mushroom (Pleurotus Sajor-Caju Spp.) Using A Swirling Fluidised Bed Dryer | Ongoing |
| **BACHELOR DEGREE** | | |
| Main SV | Name: Nik Afizi Shahriman bin Nik Ahmad Shahrul Azhar – MA21061<br>Institution: Universiti Malaysia Pahang (UMP), Pahang<br>Title: Wind Tunnel Experimental Studies on Flow Pattern Behind Finite Wall Barrier Utsing Smoke Wire Technique | Ongoing |
| | Name: Muhammad Nasron Zuhair bin Mat Noh – MA22051<br>Institution: Universiti Malaysia Pahang (UMP), Pahang<br>Title: The flow pattern experiment around Traditional Malay House using smoke wire technique in a wind tunnel | Ongoing |
| | Name: Muhammad Haiqal Deniel bin Suhaimi – MA22113<br>Institution: Universiti Malaysia Pahang (UMP), Pahang<br>Title: Assesment on vertical velocity profiles behind row of spires developing over smooth and rough wall boundary layer | Ongoing |
| | Name: Muhammad Afiq Safwan bin Harozi – MA20142<br>Institution: Universiti Malaysia Pahang (UMP), Pahang<br>Title: Traverse system for small scaled boundary layer wind tunnel (September 2023 – 28th June 2024). | Graduated |
| | Name: Khairul Ikhwan bin Mustafar – MA20167<br>Institution: Universiti Malaysia Pahang (UMP), Pahang<br>Title: Flow Visualisation behind 2-Dimensional Bodies Using an Enhanced Smoke Wire Technique in a Quasi-Atmospheric Boundary Layer Wind Tunnel, (September 2023 – 28th June 2024). | Graduated |
| | Name: Muhammad Danial Iqmal bin Zainuddin – MA19304<br>Institution: Universiti Malaysia Pahang (UMP), Pahang<br>Title: Development of the smoke wire technique in an open loop boundary layer wind tunnel, (15 October 2022 - 2023). | Graduated |
| | Name: Muhammad Hafizuddin bin Alias – MA19304<br>Institution: Universiti Malaysia Pahang (UMP), Pahang<br>Title: Qualitative study for different types of Traditional Malay House using smoke wire technique in an open loop boundary layer wind tunnel, (15 October 2022 - 2023). | Graduated |
| | Name: Khairun Adhani binti khairunizam – MA18102<br>Institution: Universiti Malaysia Pahang (UMP), Pahang<br>Title: Flow Visualisation behind 2-Dimensional Bodies Using an Enhanced Smoke Wire Technique in a Quasi- | Graduated |

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| | Atmospheric Boundary Layer Wind Tunnel, (1 March 2021 – October 2022 ). | |
| | Name: Kamil Khalili bin Haji Abdullah – MA18217<br>Institution: Universiti Malaysia Pahang (UMP), Pahang<br>Title: Flow Visualisation behind Traditional Malay House Using an Enhanced Smoke Wire Technique in a Quasi-Atmospheric Boundary Layer Wind Tunnel, (1 March 2021 – October 2022). | Graduated |
| | Name: Hirwansah bin Rahman – MA17005<br>Institution: Universiti Malaysia Pahang (UMP), Pahang<br>Title: Simulation Study on Aerodynamic Interaction Between Wake Flow Behind a Tall and Slender Skyscraper with Rough Wall Boundary Layer, (20th October 2020-2021). | Graduated |
| | Name: Muhammad Rozaki – MA17001<br>Institution: Universiti Malaysia Pahang (UMP), Pahang<br>Title: Enhanced Smoke Wire Technique with Control Dripping Valve in a Quasi-Atmospheric Boundary Layer Wind Tunnel, (10th September 2019-1 March 2021). | Graduated |
| | Name: Muhammad Mujahid – MA17162<br>Institution: Universiti Malaysia Pahang (UMP), Pahang<br>Title: Aerodynamic Interaction between Rough Wall Boundary Layer with Wake Behind Spires at Longest Streamwise Position, (10th September 2019-1 March 2021). | Graduated |
| | Name: Hanis Marni Akmal Binti Hamdzah – MH16028<br>Institution: Universiti Malaysia Pahang (UMP), Pahang<br>Title: Simulation on Wake Flow behind Rigid Bodies and its Aerodynamic Interaction with Smooth and Rough Wall Boundary Layer, (10th September 2019-20th October 2020). | Graduated |
| | Name: Mohamad Syafiq Bin Mohd Tahir – MH16067<br>Institution: Universiti Malaysia Pahang (UMP), Pahang<br>Title: Aerodynamic Interaction between Smooth Wall Boundary Layer with Wake Behind Spires at Longest Streamwise Position, (10th September 2019-2nd September 2020). | Graduated |
| | Name: Ahmad Faizul bin Zainuddin – MA15133<br>Institution: Universiti Malaysia Pahang (UMP), Pahang<br>Title: Simulation of The Aerodynamic Interaction between Smooth Wall Boundary Layer with Wake Generated Behind a Single Spire, (15th August 2018-2nd September 2020). | Graduated |
| | Name: Mohamad Fariz bin Zakaria – MA17210<br>Institution: Universiti Malaysia Pahang (UMP), Pahang | Graduated |

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|---|---|---|
| | Title: Wake Flow Recovery Process Behind Slender Vortices Generator, (28th January 2019-25th February 2020). | |
| | Name: Muhamad Dzulhilmi bin Immeran – MA14158<br>Institution: Universiti Malaysia Pahang (UMP), Pahang<br>Level: Bachelor's degree<br>Title: Simulation of The Aerodynamic Interaction between Smooth and Rough Wall Boundary Layer with Wake Generated Behind Multiple Spires, (15th August 2018-17th May 2019). | Graduated |
| **DIPLOMA DEGREE** | | |
| Main SV | Name: Muhammad Syahmi bin Shaari – MB20090<br>Institution: Universiti Malaysia Pahang (UMP), Pahang<br>Title: Flow Visualisation behind Different types of Vortex Generators Using an Enhanced Smoke Wire Technique in a Quasi-Atmospheric Boundary Layer Wind Tunnel, (1 March 2022 – October 2022). | Graduated |
| | Name: Raja Nuraisyah binti Raja Kamal Azira – MB20050<br>Institution: Universiti Malaysia Pahang (UMP), Pahang<br>Title: Inflow Condition of a Quasi-Atmospheric Boundary Layer Wind Tunnel with and without honeycomb, (1 March 2022 – October 2022). | Graduated |
| | Name: Agha Khilfi bin Suarno – MB 16285<br>Institution: Universiti Malaysia Pahang (UMP), Pahang<br>Level: Diploma Degree<br>Title: Design of Vortices Generators to Deepen the Boundary Layer in a Wind Tunnel, (15th August-30th December 2018). | Graduated |
| | Name: Muhammad Hafizuddin bin Alias – MB17219<br>Institution: Universiti Malaysia Pahang (UMP), Pahang<br>Level: Diploma Degree<br>Title: Design and Fabrication of an Open-Loop Low Speed Quasi Atmospheric Boundary Layer Wind Tunnel, (29th January 2019-14th May 2019). | Graduated |
| | Name: Amar Suhail bin Azman – MB17012<br>Institution: Universiti Malaysia Pahang (UMP), Pahang<br>Title: Flow Visualisation using Smoke Wire Technique on Open-Loop Low Speed Quasi Atmospheric Boundary Layer Wind Tunnel, (10th September 2019-10th February 2020). | Graduated |
| | Name: Afdhalul Irfan bin Abdullah – MB18138 Institution: Universiti Malaysia Pahang (UMP), Pahang<br>Title: Fabrication on Valve Timing Control Dripper in Smoke Wire Technique on Open-Loop Low Speed Quasi Atmospheric Boundary Layer Wind Tunnel, (10th September 2019-2nd September 2020). | Graduated |
| | Name: Muhammad Haiqal bin Kamarudin – MB17162<br>Institution: Universiti Malaysia Pahang (UMP), Pahang | Graduated |

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| | Title: Fabrication on Rough Wall and Traditional Model House in an Open-Loop Low Speed Quasi Atmospheric Boundary Layer Wind Tunnel, (10th September 2019-2nd September 2020). | |
| | Name: Muhamad Haziq Bin Abdul Wahid– MB19090<br>Institution: Universiti Malaysia Pahang (UMP), Pahang<br>Title: Experimental Study on Flow Pattern Behind Traditional Malay House by Smoke Wire Technique in a Boundary Layer Wind Tunnel, (1st March 2021-present). | Graduated |

| **RESEARCH PUBLICATIONS** | |
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| Details | Status |
| Optimization of the Experimental Conditions for Smoke Wire Technique in a Wind Tunnel, Achmad Rizal Piliang Yusrizal, Nurizzatul Atikha Rahmat, Kamil Khalili Abdullah, Khairul Ikhwan Mustafar, Muhammad Afiq Safwan Harozi, Nor Atiqah Zolpakar, Izuan Amin Ishak, Theoretical and Applied Mechanics Letter | Under Journal Review |
| Flow Rate Effects on Smoke Wire Visualization Around A Finite Cube In A Small-Scale Boundary Layer Wind Tunnel, Achmad Rizal Piliang Yusrizal, Nurizzatul Atikha Rahmat, Kamil Khalili Abdullah | Camera Ready |
| Investigation of Boundary Layer Development and Inflow Conditions in a Small-Scaled UMPSA Boundary Layer Wind Tunnel, K.K. Abdullah, Nurizzatul Atikha Rahmat, A.R.P Yusrizal | |
| A.R.P Yusrizal, Nurizzatul Atikha Rahmat, K.K. Abdullah, A Review of Smoke Wire Technique for Wind Tunnel Flow Visualization Experiment, Journal of Mechanical Engineering and Sciences | |
| K.K. Abdullah, Nurizzatul Atikha Rahmat, A.R.P Yusrizal, A.F Mohammad, S.A Zaki, Design Development of Small-Scale Quasi Atmospheric Boundary Layer Wind Tunnel for Building Aerodynamics: A Review, Journal of Mechanical Engineering and Sciences | |
| Muhammad Arifuddin Fitriady, Nurizzatul Atikha Rahmat, Kamil Khalili Bin Haji Abdullah, and Achmad Rizal Piliang Bin Yusrizal, Vertical and Lateral Velocity Profiles behind a Single Spire in a Boundary Layer Wind Tunnel: OpenFOAM Approach, Journal of Wind Engineering and Industrial Aerodynamics, WoS Q1 | |
| Muhammad Arifuddin Fitriady, Nurizzatul Atikha Rahmat, Kamil Khalili Bin Haji Abdullah, and Achmad Rizal Piliang Bin Yusrizal, Quasi-Atmospheric Boundary Layer Generation and Enhancement by Spires in a Boundary Layer Wind Tunnel: A Review, Journal of Wind Engineering and Industrial Aerodynamics, WoS Q1 | Under Journal Review |
| Kamil Khalili Haji Abdullah, Nurizzatul Atikha Rahmat, ARP Yusrizal, MAS Harozi, KI Mustafar, Nor Atiqah Zolpakar, Design and Construction of a Detachable Traverse System for Small Scaled Quasi Boundary Layer Wind Tunnel, Materials Science Forum (ISSN print 0255-5476 / ISSN web 1662-9752). Indexed by Elsevier: SCOPUS. | Waiting to publish |

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| Muhammad Nur Farhan Saniman, Mohd Aswad Hanafi, Khairul Anuar Abd Wahid, Muhammad Hisyam Rosle, Eliza M Yusup, Nurizzatul Atikha Rahmat, Iwao Matsuya, Autonomous 3D-Printed Microfluidics Using Responsive Materials for Integrated Sensors: A Review, Journal of Advanced Research in Experimental Fluid Mechanics | Under Journal Review |
| Nur Amira Mohd Pouzi, Erny Afiza Alias, Izzati Salwani Zaidi, Muhammad Izhar Ishak, Nurizzatul Atikha Rahmat, Investigating the Impact of Rotational Porous Tube Parameters on Generated Microbubble Size, Journal of Advanced Research in Experimental Fluid Mechanics | |
| Nor Atiqah Zolpakar, Siti Nursyahirah Mohd Zahari, Izuan Amin Ishak, Mohd Aidil Safwan, Nurizzatul Atikha Rahmat, A Review of Fabrication Methods of Microchannel Heat Sink for Electronic Devices Cooling System | |
| Miko Hadi Wijaya, Sheikh Ahmad Zaki, Ahmad Faiz Mohammad, Noor Alam, Nurizzatul Atikha Rahmat, Nora'zizi Othman, Wind Tunnel Study on the Effects of Mean Velocity Distribution in Roof Attics with Different Cross Ventilations | |
| Chun Khai Tan, Ahmad Faiz Mohamad, Nurizzatul Atikha Rahmat, Sheikh Ahmad Zaki, and Farah Liana Redzuan, Numerical Investigation of Blade Tip Loss Effect of the Torque of H-Rotor Vertical Axis Wind Turbine, Journal of Transport System Engineering, 11, 1., pp. 56-62. 2024 | Published |
| Miko Hadi Wijaya, Sheikh Ahmad Zaki, Ahmad Faiz Mohamad, Nurizzatul Atikha Rahmat, and Nor'azizi Othman, Investigation of wind flow characteristics using passive devices in boundary layer wind tunnel, Journal of Transport System Engineering, 11.1 pp. 70-73. 2024 | |
| Muhammad Arifuddin Fitriady, Nurizzatul Atikha Rahmat, and Ahmad Faiz Mohammad, Vertical and Spanwise Wake Flow Structures of a Single Spire over Smooth Wall Surface in a Wind Tunnel, Journal of Applied Fluid Mechanics (JAFM). 2023. | |
| Muhammad Arifuddin Fitriady, Nurizzatul Atikha Rahmat, and Ahmad Faiz Mohammad, Numerical Simulation of the Boundary Layer Development behind a Single Quarter Elliptic-Wedge Spire, Journal of Mechanical Engineering and Sciences (JMES). 2023. Doi: https://doi.org/10.15282/jmes.17.2.2023.1.0745 | |
| Muhammad Arifuddin Fitriady, Nurizzatul Atikha Rahmat, and Ahmad Faiz Mohammad, Numerical Simulation on the Elucidation of Wake Flow Structure Behind a Single Quarter Elliptic-Wedge Spire, IET conference publications. 2023. Doi: 10.1049/icp.2022.2627 | Published |
| Kamil KH Abdullah, Nurizzatul Atikha Rahmat, Khairun A Khairunizam, Flow Pattern around Traditional Malay House using Enhanced Smoke Wire Technique in a Boundary Layer Wind Tunnel, IET conference publications. 2023. Doi: 10.1049/icp.2022.2569 | |

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| Muhammad Arifuddin Fitriady, Nurizzatul Atikha Rahmat, and Ahmad Faiz Mohammad, Effect of Mesh Refinement on Vertical and Lateral Velocity Profiles of the Wake Flow behind a Spire based on CFD, Journal of Engineering and Technology, 2023. | |
| Siti Norsyahira Mohd Zahari, Nor Atiqah Zolpakar, Nurrizatul Atikha Rahmat, Flow Pattern Analysis for Oscillatory Flow inside Resonator Tube for | |
| Nurul Izzati, Sheikh Ahmad Zaki, Hom Bahadur Rijal, Jorge Alfredo Ardila Rey, Aya Hagishima and Nurizzatul Atikha, Investigation of thermal adaptation and development of an adaptive model under various cooling temperature settings for students' activity rooms in a university building in Malaysia, Journal of Buildings, Vol. 13(1), No. 36, pp. 1-25. https://doi.org/10.3390/buildings13010036 | |
| Nurizzatul Atikha Rahmat, Kamil Khalili Haji Abdullah & Khairun Adhani Khairunizam, Natural Ventilation in Traditional Malay House: A Study of Flow Pattern by an Enhanced Smoke Wire Technique, Lecture Notes in Energy, Volume 92, pp. 289 – 303 (2022) | |
| Muhammad Arifuddin Fitriady, Nurizzatul Atikha Rahmat, Ahmad Faiz Mohammad, Urban Heat Island Phenomenon in Tropical Countries: Analysis of the Wake Flow Behind Slender High-Rise Building, Lecture Notes in Energy, Volume 92, pp. 289 – 303 (2022) | |
| Nurizzatul Atikha Rahmat, Mohammad Rozaki Ramli, Mujahid Husaimi Che Hassan, Kamil Khalili Haji Abdullah & Khairun Adhani Khairunizam, Enhanced Smoke Wire Technique with Control Dripping Valve in a Small Scaled Quasi-Atmospheric Boundary Layer Wind Tunnel, Lecture Notes in Mechanical Engineering, Springer, pp. 611-627 (2022) | |
| Nurizzatul Atikha Rahmat, Mohammad Rozaki Ramli, Mujahid Husaimi Che Hassan, Kamil Khalili Haji Abdullah, and Khairun Adhani Khairunizam, 6th International Conference on Mechanical Engineering Research (ICMER) 2021, titled, "Enhanced Smoke Wire Technique with Control Dripping Valve in a Small Scaled Quasi-Atmospheric Boundary Layer Wind Tunnel". LNME Paper Proceeding | |
| Tan Chun Khai, Ahmad Faiz Mohammad, Sheikh Ahmad Zaki, Fazlizan, Nurizzatul Atikha Rahmat, Farah Liana, Effect of design parameters on the performance of vertical-axis wind turbine: a review, Journal of Building Engineering (2022). | |
| Fauzan Fahmi Mohamad Nora'eni, M. B. Malarvili, Nurizzatul Atikha Rahmat, Mohd Fadhil Md Din, and Fadzlin Md Sairan, Physiological Response to Submaximal Exercise in Cold and Hot Ambient Temperature, Journal of Mechanical Engineering, Vol. SI 10 (1), pp. 277-292 (2021). | |
| Nurul Izzati Kamaruddin, Sheikh Ahmad Zaki, Hom Bahadur Rijal, Aya Hagishima, Waqas Khalid, Nurizzatul Atikha, Fitri Yakub, Farah Liana, Field Study of the Occupant's Thermal Preferences for Cooling in Living Rooms based on Different Set Point Temperatures, Proceedings paper of the International Conference on Advanced | Published |

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| Technology and Applied Science, ICaTAS-MJJIC 2020 (15th October 2020). | |
| Fauzan Fahmi Mohamad Nora'eni, M. B. Malarvili, Nurizzatul Atikha Rahmat, Mohd Fadhil Md Din, and Fadzlin Md Sairan, Effect of Cold and Hot Temperature on Physiological Parameters During Exercise, Proceedings paper of the 2nd Climate Smart & Disaster Resilient ASEAN International Conference 2020, ASEAN CSDRA 2020 (26th October 2020). | |
| Vikneshvaran, Sheikh Ahmad Zaki, Nurizzatul Atikha Rahmat, Mohamed Sukri Mat Ali, Fitri Yakub, Evaluation of Atmospheric Boundary Layer in Open-Loop Boundary Layer Wind Tunnel Experiment, Journal of Advanced Research in Fluid Mechanics and Thermal Sciences, Vol. 72, No. 2, pp. 79-92 (August, 2020) | |
| Experimental Study on Aerodynamic Features of Boundary Layer Developed past Spires over Wall Surfaces, Doctorate Degree Thesis | |
| Nurizzatul Atikha Rahmat, Hagishima Aya, Ikegaya Naoki, and Tanimoto Jun, Experimental Study on Effect of Spires on the Lateral Nonuniformity of Mean Flow in a Wind Tunnel, Evergreen Joint Journal of Novel Carbon Resource Sciences & Green Asia Strategy, Vol. 5, Issue 1 (2018) | |
| Nurizzatul Atikha Rahmat, Hagishima Aya, Ikegaya Naoki, and Tanimoto Jun, An Experimental Study on Aerodynamic Interaction between Boundary Layer generated by a Smooth and Rough Wall and a Wake Behind a Spire, Interdisciplinary Graduate School of Engineering Sciences Report, Vol. 37, No. 2, pp. 19-26 (2016) | |
| Nurizzatul Atikha Rahmat, Hagishima Aya, Ikegaya Naoki, and Tanimoto Jun, Experimental Study on Aerodynamic Interaction Between Boundary Layer Generated by a Smooth and Rough Wall and a Wake Behind a Spire, Proceedings paper of the 17th Cross Straits Symposium on Energy and Environmental Science and Technology, pp. 53-54 (2015). | |
| Ikegaya Naoki, Nurizzatul Atikha, Hagishima Aya, and Tanimoto Jun, 都市境界層風洞内におけるスパイヤー後流と乱流境界層気流の干渉に関する基礎的検討, Proceedings paper of The Japan Society of Fluid Mechanics (JSFM), pp. 1-4 (2014). | |
| Prediction of Maximum Strain and Strain Rate in SHPB Specimens based on Energy Analysis, Master Degree Thesis (2013). | |
| Rahmat Nurizzatul Atikha, Takashi Yokoyama and Nakai Kenji, Prediction of Maximum Strain and Strain Rate in SHPB Specimens based on Energy Analysis, 2012 JSEM Annual Conference on Experimental Mechanics (2012). | |
| Vibrating Reed Method for Determining the Viscoelastic Properties of Paperboard, Bachelor Degree Thesis. | Published |

| **INTERNATIONAL/LOCAL CONFERENCES/SYMPOSIUM AND TRAINING** |
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| Oral Presentation in the 14th International Conference on Material Science and Engineering Technology (**ICMSET** 2025) for paper titled Design and Construction of a Detachable Traverse System for Small Scaled Quasi Atmospheric Boundary Layer Wind Tunnel, in Nagoya, Japan | 22 – 24 Nov 2024 |
| Speaker for Program Semai Bakti with Yayasan Pelajaran Mara in Malaysia's Secondary Schools | 29 July – 16 Nov 2024 |
| 14th Creation, Innovation, Technology, and Research Exposition, CITREX 2024 | 7 – 9 May 2024 |
| Host for Global Classroom with Prof. Dr. Ikegaya Naoki, Wind-tunnel experiments for indoor and outdoor airflow around generic block arrays | 18 Jan 2024 |
| Host/Speaker for Sustainability Lecture Series on Talk 1: Sustainability and Energy Conservation in Building Sector and Talk 2: Floating Solar Systems and Ocean Carbon Removal | 25 June 2022 |
| UNIDO Representative and UMP Project Leader on the collaboration between UNIDO-UMP on the module development - Solar Thermal Engineering Design | 22 June 2022 |
| UNIDO Representative and UMP Project Leader on the collaboration between UNIDO-UMP on the module development - Solar Thermal principles and application | |
| Joint Chair for Symposium on Environment and Energy Systems 2022 (SEES2022) | 18 March 2022 |
| UMPSA representative in CHINA-MALAYSIA COOPERATION in TVET | 12 March 2022 |
| UMP National Conference for Postgraduate Research 2022 (NCON-PGR2022), titled, "Effect of Mesh Refinement on Vertical and Lateral Velocity Profiles of the Wake Flow behind a Spire based on CFD". | 15 Nov 2022 |
| Engineering Technology International Conference 2022 (ETIC2022) titled, "Numerical Simulation on the Elucidation of Wake Flow Structure behind a Single Quarter Elliptic-Wedge Spire". | 7 Sept 2022 |
| Engineering Technology International Conference 2022 (ETIC2022), titled, "Flow Pattern around Traditional Malay House using Enhanced Smoke Wire Technique in a Boundary Layer Wind Tunnel". | |
| 6th International Conference on Mechanical Engineering Research (ICMER) 2021, titled, "Enhanced Smoke Wire Technique with Control Dripping Valve in a Small Scaled Quasi-Atmospheric Boundary Layer Wind Tunnel". | 26 – 27 Oct 2021 |
| Global Classroom for DMM2533 Fluid Mechanics with Kyushu University titled "Wind Environment in Urban Area". Moderator: Dr Nurizzatul Atikha Rahmat, Speaker: Assoc. Prof. Ikegaya Naoki, 63 participants. | 27 Oct 2020 |
| 10th Creation, Innovation, Technology, and Research Exposition, CITREX 2020 | 12 – 13 Feb 2020 |
| The 4th International Symposium on Fluid Mechanics and Thermal Sciences, 4th IS-FMTS 2019 at Palm Garden Hotel IOI Resort City, Putrajaya, Malaysia | 14 Dec 2019 |

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| The 4th International Symposium on Fluid Mechanics and Thermal Sciences, 4th IS-FMTS | |
| Oral presentation in an International Conference CSS-EEST at Fukuoka, Japan. | 2016 |
| Oral presentation in a 9th International Conference on Urban Climate held at Toulouse, France. | 2015 |
| Oral presentation in Annual Conference of The Japan Society of Fluid Mechanics (JSFM), Japan. | 2014 |
| Oral presentation in Joint International Conference of the 2nd International Conference on Experimental Mechanics, The 11th Asian Conference on Experimental Mechanics (ISEM-ACEM-SEM-7th ISEM 2012) at Taiwan. | 2013 |
| Oral Presentation in 2012 Japanese Society of Materials Science (JSMS) Annual Conference at Tokyo, Japan (2012). | 2012 |

| **ACADEMIC VISITATIONS FOR COLLABORATION** | |
|---|---|
| Industrial Visit from SIRIM BERHAD for MOU collaboration with industry | 3 July 2025 |
| Industrial Visit from SIRIM QAS MALAYSIA for MOU collaboration with industry | 25 June 2025 |
| Academic Visit to VACUUMSCHEMELZE SDN BHD | 2025 |
| Academic Visit to MCube Engineering Sdn Bhd | 2024 |
| Academic Visit to Venturi Asia for research collaboration | 2020 |
| Research Collaboration with Kyushu University, Japan and MJIIT UTM, KL | 2019 |
| Research Collaboration with UTM Skudai, JB | |
| Academic Visit to Centre of Excellence Advance Sensor Technology (CEASTeach) at UNIMAP, Perlis | 21 Jan 2019 |
| Academic Visit to Aerospace Engineering Lab at USM, Penang | 23 Jan 2019 |
| Academic Visit to Micro and Nano Electric Lab at UTEM, Melaka | 28 Dec 2018 |
| Academic Visit to Wind Engineering and Building Physics Lab at UITM, Shah Alam | 27 Dec 2018 |
| Academic Visit to Wind Engineering and Environment (WEE) LAB at MJIIT, UTM, KL | 26 Dec 2018 |
| Academic Visit to CARIFF at UMP Gambang Campus, Pahang | 24 Dec 2018 |
| 7. Academic Visit to Politeknik Sultan Mizan Zainal Abidin, Dungun, Terengganu | 25 Aug 2018 |