

CURRICULUM VITAE



Associate Professor Dr. Badronnisa Yusuf
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Education

1. PhD Civil Engineering, 2009, Universiti Kebangsaan Malaysia
2. M.Eng.Sc Water Engineering, 1993, University College Dublin, Ireland.
3. B.Eng. (Hons) Civil Engineering, 1991, University of Glamorgan, United Kingdom.

Areas of Interest

1. Hydraulics
2. Sediment Transport
3. Sustainable Urban Drainage System (SuDS)
4. Water Resources Engineering

Professional Qualification/Membership/Affiliation

1. Member, Board of Engineers Malaysia (BEM)
2. Member, Institution of Engineers Malaysia (IEM)
3. Member, International Associations of Engineers (IAENG)
4. Member, Malaysia National Committee of Irrigation and Drainage (MANCID)
5. Member, Malaysian Society for Engineering and Technology (MySET)
6. Member, International Association for Hydro-Environment Engineering and Research (IAHR)

Appointments

Position	Duration
1. Associate Professor, Department of Civil Engineering, UPM	June 2019 to date
2. Programme Coordinator, Master of Water Engineering, UPM	Sept 2017 to date
3. Head of Hydraulic Laboratory, Department of Civil Engineering, UPM	June 2016 to date
4. Senior Lecturer, Department of Civil Engineering, Faculty of Eng., UPM	June 2005 to May 2019
5. Academic Coordinator, Dept. of Civil Engineering, Faculty of Eng., UPM	Nov 2009 – Nov 2013
6. Lecturer, Civil Engineering Department, Faculty of Engineering, UPM	Dec 1997 to May 2005

Publications

Journals

1. Ahmed Mohammed Sami Al-Janabi, **Badronnisa Yusuf**, Abdul Halim Ghazali. Modeling the Infiltration Capacity of Permeable Stormwater Channels with a Check Dam System. *Water Resources Management*. 2019. Volume 33, Issue 7, pp 2453–2470. **ISI Q1. IF: 2.644**
2. Zaty Aktar Mokhtar, Thamer Ahmad Mohammed, **Badronnisa Yusuf**, Tze Liang Lau. Experimental Investigation of Tsunami Bore Impact Pressure on a Perforated Seawall. *Applied Ocean Research*. 84. 291-301. 2019. **ISI Q2. IF: 1.950**
3. Jamilu Bala Ahmed, Biswajeet Pradhan, Shattri Mansor, Joseph D.C. Tongjura, **Badronnisa Yusuf**. Multi-Criteria Evaluation of Suitable Sites for Termite Mounds Construction in a Tropical Lowland. *Catena* 178 (2019). 359 -371. 2019. **ISI Q1. IF: 3.256**
4. Hydar Lafta Ali, **Badronnisa Yusuf**, Thamer Ahmad Mohammed, Yasuyuki Shimizu, Mohd Shahrizal Ab Razak and Balqis Mohamed Rehan. Improving the Hydro-Morpho Dynamics of a River Confluence by Using Vanes. *Resources*. 8 (9). 2019. **Scopus**.
5. Zaty Aktar Mokhtar, **Badronnisa Yusuf**, Thamer Ahmad Mohammed and Saiful Bahri Hamzah. Experimental Study of Tsunami Bore Induced Forces on Vertical Seawall. *Pertanika Journal of Science and Technology*. Vol. 27 (2). 2019. **Scopus**.

6. Alsawaf, M., Ghazali, A.H., Mohammad, T.A., Ab Ghani, A., **Yusuf, B.** Movable-Bed Experiments Using Spur Dike to Concentrate Flow in One Channel of Multithreaded Channel Mode. *Journal of Hydraulic Engineering*. 145 (5). 2019. **ISI Q2. IF: 2.080**
7. Hydar Lafta Ali, Badronnisa Yusuf, Thamer Ahmad Mohammed, Yasuyuki Shimizu, Mohd Shahrizal Ab Razak, Balqis Mohamed Rehan. Assessment of Vanes Effectiveness in Controlling Erosion and Deposition Zones at a River Confluence using a 2D model. *International Journal of Integrated Engineering*. Vol. 11 No. 2 (2019) 223–235.2019. **Scopus**.
8. Saima Nauman, Zed Zulkafli, Abdul Halim Bin Ghazali, **Badronnisa Yusuf**. Impact Assessment of Future Climate Change on Streamflows Upstream of Khanpur Dam, Pakistan using Soil and Water Assessment Tool. *Water*.11, 1090; doi:10.3390/w11051090 2019.. **ISI Q2. IF: 2.069**.
9. Masayu Norman, Helmi Zulhaidi Mohd Shafri, Mohammed Oludare Idrees, Shattri Mansor & **Badronnisa Yusuf**. Spatio-Statistical Optimization of Image Segmentation Process for Building Footprint Extraction Using Very High-Resolution Worldview 3 Satellite Data. *Geocarto International*. <https://doi.org/10.1080/10106049.2019.1573853>. 2019. **ISI Q3. IF: 1.789**
10. Nur Shafira Nisa Shaharum, Helmi Zulhaidi Mohd Shafri, Wan Azlina Wan Ab Karim Ghani, Sheila Samsatli, Husni Mobarak Prince, **Badronnisa Yusuf** & Ahmed Mohamed Hamud. Mapping The Spatial Distribution and Changes of Oil Palm Land Cover Using an Open Source Cloud-Based Mapping Platform. *International Journal of Remote Sensing*. <https://doi.org/10.1080/01431161.2019.1597311>. 2019. **ISI Q3. IF: 1.782**.
11. Nashwan K. Omari, **Badronnisa Yusuf**, Thamer Ahmed Mohamed Ali, Abdul Halim Ghazali Experimental Investigation of Scour at a Channel Junctions of Different Diversion Angles and Bed Width Ratios. *Catena*, 166 (2018) 10–20. 2018. **ISI Q1, IF: 3.256**.
12. Ahmed Mohammed Sami Al-Janabi, Abdul Halim Ghazali, **Badronnisa Yusuf**, and Thamer Ahmed Mohammed. Permeable Channel Cross Section for Maximizing Stormwater Infiltration and Seepage Rates, *Journal of Irrigation Drainage Engineering*, 144(3). 04018001 1-10. 2018. **ISI Q3. IF: 0.707**
13. Yousif H. Al-Aqeeli, S. Abd Aziz, **Badronnisa Yusuf**, and Aimrun Wayayok. Evaluation of Single Reservoir Performance for Flood Risk Reduction Using a Developed Simulation Model: Case Study of Makhoul Reservoir. *Pertanika J. Sci. & Technol.* Vol. 26 (2): 571 - 584. 2018. **Scopus**
14. Hydar L. Ali, Thamer Ahmed Mohamed, **Badronnisa Yusuf**, Azlan A. Aziz, A Simplification of the Einstein Equation for the Calculation of Suspended Sediment Transport in Rivers. The *International Journal of Hydrology Science and Technology*. Vol 8 (4). 2018. **Scopus**.
15. Izni Zohadi, **Badronnisa Yusuf**, Mike Cope, Thamer Ahmed Mohamed, Helmi Zulhaidi Mohd Shafri. Effects of Depth-Varying Vegetation Roughness in Two-Dimensional Hydrodynamic Modelling, *International Journal of River Basin Management*. 16:4, 413-426, DOI: 10.1080/15715124.2017.1394313. **Scopus**.
16. Nordila Ahmad, Bruce Melville, Thamer Mohammad, Faisal Ali & **Badronnisa Yusuf**. Scour Geometry at Long Skewed Bridge Piers Under Shallow Water Flows. *ICE Water Management*, <http://dx.doi.org/10.1680/jwama.15.00119>, pp. 1–12, 2017. **ISI Q4. IF: 0.431**.
17. Nordila Ahmad, Thamer Mohammad, Melville Bruce W., Faisal, Ali and **Badronnisa Yusuf**. Modelling the Effect of Sediment Coarseness on Local Scour at Wide Bridge Piers. *Pertanika J. Sci. & Technol.* 25 (1): 191 - 200. 2017. **Scopus**.
18. Talal A. Basheer, Aimrun Wayayok, **Badronnisa Yusuf**, Md Rowshon Kamal. Dam Breach Parameters and their Influence on Flood Hydrographs for Mosul Dam. *Journal of Engineering Science and Technology*, Volume 12 (11). 2017. **Scopus**
19. Nor Azidawati, Goh Qui You, Mohd Sofiyen Sulaiman, Badronnisa and Manal Mohsen Abood.. Evaluation of River Stability By Morphological Assessment, *Infrastructure University Kuala Lumpur Research Journal*. Vol 5 No 1. 2017.
20. Mena Ahmed, Abdul Halim Ghazali, Thamer Ahmed Mohammad, Badronnisa Yusuf, Aminuddin Abdul Ghani. Hydraulic Simulation of Flow around Spur Dikes. *International Journal of Engineering and Advanced Technology*. Volume 6 Issue 4. 2017. **Scopus**.
21. Nashwan K. Omari, **Badronnisa Yusuf**, Thamer Ahmed Mohamed Ali, Abdul Halim Ghazali. Flow in a Branching Channel: A Review. *Pertanika Journal of Scholarly Research Reviews*, Volume 2(2), pp 40-56, 2016.
22. Nashwan K. Omari, **Badronnisa Yusuf**, Thamer Ahmed Mohamed Ali, Abdul Halim Ghazali. Velocity Distribution Description in a Sand Bed Branching Channel with Different Angles

- and Bed Widths. *Journal of Scientific Research and Development* 3 (5): 200-203, 2016.
23. Nordila Ahmad, Bruce Melville, Thamer Mohammad, Faisal Ali & **Badronnisa Yusuf**. Clear-Water Scour at Long Skewed Bridge Piers. *Journal of the Chinese Institute of Engineers*, DOI:10.1080/02533839.2016.1259021. 2016. **Scopus**.
 24. Amirsaeed Farhangi, Ahmad Mohammad Ali Thamer, Abdul Halim Ghazali & **Badronnisa Yusuf** Maximum Scour Depth At Submerged Skewed Bridge And Pier. *Malaysian Journal of Civil Engineering*. 28 (1). pp 20-34. 2016.
 25. A. Montakhab, **Badronnisa Yusuf**, Andrew M. Folkard. Flow and Turbulence in Vegetation in a Channel. *ICE Water Management*, Volume 168, Issue 1, 2015. **ISI Q3. IF: 0.656**.
 26. Izni Zohadi, **Badronnisa Yusuf**, Alireza Hamedianfar, Helmi Zulhaidi Mohd Shafri, Thamer Ahmed Mohammed. Assessment of Object-Based Classification of Fused Quickbird Image and Low Point Density Lidar for Tropical Trees and Shrubs, *European Journal of Remote Sensing*. Volume 48, pp 423-446, 2015. **Scopus**.
 27. Hydar L. Ali, Thamer Ahmed Mohamed, **Badronnisa Yusuf**, Azlan A. Aziz, *Testing the Accuracy of Sediment Transport Equation Using Field Data*. *Malaysian Journal of Civil Engineering*. 2015.
 28. Ahmad, N., Mohamed, T., Ali, F. **Yusuf, B.** Clear Water Local Scour at Wide Piers in Shallow Water Flow. *Water Practice and Technology*. Volume 9, Issue 3, pp 331-343, 2014. **Scopus**.
 29. Izni Mohd Zahidi, **Badronnisa Yusuf**, Mike Cope. Vegetative Roughness Estimation for Hydraulic Modelling: A Review. *Research in Civil and Environmental Engineering*, 2 (01), 01-10, 2014.
 30. Mohd Ali Fullazzaky, Mohd Hairul Khamidun, **Badronnisa Yusuf**. Sediment traps from synthetic construction site stormwater runoff by grassed filter strip. *Journal of Hydrology*. Vol 502, pp 53-61. 2013. **ISI Q1. IF: 2.963**
 31. K.M. Darain, A.B.M.S. Rahman, A. Ahsan, A.B.M.S. Islam, **B. Yusuf**. Brick Manufacturing Practice in Bangladesh: A Review of Energy Efficacy and Air Pollution Scenarios, *Journal of Hydrology and Environment Research (Australia)*, 1 (1), pp 60-69, 2013.
 32. Nik N. Nik Daud, Nur H. Izeahar, **B. Yusuf**, Thamer A. Mohamed, A. Ahsan. Groundwater Quality Improvement using Aeration and Filtration Method, *World Academy of Science, Engineering and Technology*. Vol:7 No: 6. pp 403-407, 2013.
 33. Montakhab, **B. Yusuf**, A. H. Ghazali, T.A. Mohamed. Estimation of Vegetation Porosity in Vegetated Waterways. *ICE- Water Management*. Vol 166 Issue 6, pp 333-340, 2012. **ISI Q3. IF: 0.535**.
 34. Montakhab, **B. Yusuf**, A. H. Ghazali, T.A. Mohamed. Flow and Sediment Transport in Vegetated Waterways: A Review. *Reviews in Environmental Science and Biotechnology*. Volume 11, Issue 3, pp 275-287, 2012. **Scopus**.
 35. Amimul Ahsan, M.A. Imteaz, Aatur Rahman, **Badronnisa Yusuf**, T. Fukuhara. Design, Fabrication and Performance Analysis of an Improved Solar Still. *Desalination*, 292, pp105-112, 2012. **ISI Q1. IF: 3.041**.
 36. Amir Montakhab and **Badronnisa Yusuf**. Removing Sediment Transport in Open Channel with submerged aquatic vegetation: Laboratory study. *International Journal of Physical Sciences* Vol. 6(29), pp. 6775-6780, 2011.
 37. Amir Montakhab, Abdul Halim Ghazali, Megat Johari Megat Mohd Noor, Thamer Ahmed Mohammed, **Badronnisa Yusuf**. *Journal of American Science*. 6(10), pp 387-392, 2010.
 38. **B. Yusuf**, O.A. Karim, S.A. Osman. Numerical Solution for Open Channel Flow with Submerged Flexible Vegetation. *International Journal of Engineering and Technology*, Vol 6 No 2, pp 40-51. 2009.
 39. Thamer Ahmed Mohammed, Abdul Halim Ghazali, Megat Johari Megat Mohd. Noor and **Badronnisa Yusuf**, Environmental Consideration in Flood Mitigation and River Restoration, *International Journal on Sustainable Tropical Design Research and Practice*, Vol 4 Issue 1.2009.
 40. S. Katayon, M.J. Megat Mohd Noor, W. Kien Tat, G. Abdul Halim, A.M. Thamer, **Y. Badronnisa**, Effect Of Natural Coagulant Application On Microfiltration Performance In Treatment Of Secondary Oxidation Pond Effluent. *Desalination*, 204, 204-212, 2007. **ISI Q2. IF: 0.875**
 41. Manal M. Abood, **Badronnisa Yusuf**, Thamer Ahmed Mohammed and Abdul Halim Ghazali. Manning Roughness Coefficient for Grass-Lined Channel. *Suranaree Journal of Science of Technology*, 13(4), pp 317-330, 2006.

42. Mohammed, T.A, Pillai, S., Ghazali, A.H., Noor, M.J.M.M., Huat, B.K. and **Badronnisa, Y.** Validation of Some Bridge Scour Formulae and Models Using Field Data. *Journal of King Saud University (Engineering Sciences)*, 19(1), pp 31-40, 2006.
43. Mohammed, T.A., Noor, M.J.M.M., Ghazali, A.H., **Badronnisa, Y.** and Katayon, S. Physical Modelling of Local Scouring Around Bridge Piers in Erodible Bed. *Journal of King Saud University (Engineering Sciences)*, 19(1), pp 12-23, 2007.
44. Muyibi, S.A., Mohammad, M.A., Ghazali, A.H. and **Badronnisa, Y.** Hydraulic Modelling of the Effects of Tidal Flows and Sediment Transport on Channel Geometry and Flow in Klang River Estuary. *Brunei Darussalam Journal of Technology and Commerce*, 4(1), pp 14-21, 2006.
45. Katayon Saed, Megat Johari Megat Mohd Noor and **Badronnisa Yusuf.** Sugarcane Bagasse as an Absorbent for Dye Material. *Journal of Industrial Pollution Control*. 21(1), pp 1-10, 2005.
46. Thamer Ahmed Mohammed, Megat Johari Megat Mohd. Noor, Abdul Halim Ghazali, **Badronnisa Yusuf.** Experimental Study on the Friction Loss and Uniformity of Lateral Discharges along Manifold, *IEM Journal*, 64(2), 20-25, 2003.
47. Thamer Mohamed, M.S. Jaafar, Waleed Abdul Malik Thanoon, Abdul Halim Ghazali, Megat Johari Megat Mohd Noor, **Badronnisa Yusuf** & Mohammed Salem. Evaluation of Some Proposed Methods for Protecting Bridge Substructure Using Physical Model. *Pertanika Journal of Science and Technology*, 11 (2) July, pp 229-236, 2003.

Conference/ Proceedings

1. Hydar Lafta Ali , **Badronnisa Yusuf**, Thamer Ahmad Mohammed, Yasuyuki Shimizu, Mohd Shahrizal Ab Razak, Balqis Mohamed Rehan. Control Erosion and Deposition Zones at Rivers Confluence Using 2-D Model. International Conference on Sustainable Environment and Water Research. 2018. Kuala Lumpur, Malaysia. *Best paper Award*.
2. Nor Azidawati Haron, **Badronnisa Yusuf**, Mohd Sofiyan Sulaiman, Mohd Shahrizal Ab Razak, Siti Nurhidayu Abu Bakar. Assessing River Stability and Hydraulic Geometry of Fluvial River in Malaysia. International Conference on Sustainable Environment and Water Research. 2018. Kuala Lumpur, Malaysia.
3. Raidan Saleh Maqtan, **Badronnisa Yusuf**, & Saiful Bahri. Physical Modelling of Landward Scour Due to Tsunami Bore Overtopping Seawall. International Conference on Civil, Offshore & Environmental Engineering 2018. Kuala Lumpur Malaysia.
4. Hydar Lafta Ali, **Badronnisa Yusuf**, Thamer Ahmad Mohammed, Mohd Shahrizal Ab Razak, Yasuyuki Shimizu & Balqis Mohamed Rehan. Modeling Hydro-Morpho-Dynamics of Channels Confluence Based On 2D Depth Average Flow. E-proceedings of the 2nd International Symposium on Hydraulic Modelling and Measuring Technology. 2018. Nanjing, China.
5. Al-Janabi A.M.S., Ghazali A.H., **Yusuf B.** Effects of Cross-Section on Infiltration and Seepage in Permeable Stormwater Channels. In: Pradhan B. (eds) GCEC 2017. GCEC 2017. Lecture Notes in Civil Engineering, vol 9. Springer, Singapore.
6. Norman M., Shafri H.Z.M., Pradhan B., **Yusuf B.** Improved Building Roof Type Classification Using Correlation-Based Feature Selection and Gain Ratio Algorithms. In: Pradhan B. (eds) GCEC 2017. GCEC 2017. Lecture Notes in Civil Engineering, vol 9. Springer, Singapore.
7. Ahmed Mohammed Sami Al-Janabi, Abdul Halim Ghazali, **Badronnisa Yusuf**, Effect of Cross Section on Infiltration and Seepage Rate in Permeable Stormwater Channel. Global Civil Engineering Conference 2017, Kuala Lumpur Malaysia.
8. Fadliani, Zed Zulkafli, **Badronnisa Yusuf.** Garbage In Garbage Out Dilemma. A Case Study of Hydrological Modelling in Aceh. Proceeding of the 6th Aceh Development International Conference 2017, Kuala Lumpur, Malaysia.
9. Nashwan K. Alomari, **Badronnisa Yusuf**, Abdul Halim Ghazali, Thamer Ahmed Mohammed, Talal Ahmed Basheer. A Numerical Model of Flow in a Branching Channel with Different Branching Angles and Bed Slopes. Global Conference of Engineering and Technology 2016. Kuala Lumpur, Malaysia.
10. Nashwan K. Alomari, **Badronnisa Yusuf**, Moayed S. Khaleel, Energy Loss Due to Branching Channel Flow, Global Conference of Engineering and Technology 2016. Kuala Lumpur, Malaysia.
11. Nashwan K. Alomari, **Badronnisa Yusuf**, Abdul Halim Ghazali, TA Mohammed, Velocity Distribution Description in a Sand Bed Branching Channel with Different Angles and Bed Widths. International Conference of Basic and Applied Science, Seoul, Korea. 2016.

12. Nashwan K. Alomari and **Badronnisa Yusuf**. Sediment Control in a Branch Channel. Malaysian-Korea Seminar on Healthy River Basin 2016, Kuala Lumpur Malaysia.
13. Balqis Mohd Rehan and **Badronnisa Yusuf**. Robustness of Risk Based Optimisation Methodology in Flood Protection Investment. Malaysian-Korea Seminar on Healthy River Basin 2016, Kuala Lumpur, Malaysia
14. Yousif H. Al-Aqeeli, Samsuzana Abd Aziz, **Badronnisa Yusuf**, Aimrun Wayayok, Evaluation of Makhoul Reservoir In Reducing Flood Risk In Baghdad City, PAWEES-INWEPF Joint International Conference 2015, UPM Serdang. Malaysia.
15. Nordila, A., Thamer, A.M., Faisal, A., **Badronnisa, Y.** Impact of Sediment Coarseness and Bridge Geometry on Local Scour at Wide Piers. Seminar on Physical Modeling: Application & Technology (PHYMAT) 2014, NAHRIM Seri Kembangan, Malaysia.
16. Mena Ahmed, A., Abdul Halim, G., Thamer, A.M., **Badronnisa, Y.**, Moayad Saadallah, K. Modelling of Different Geometric Properties of Spur Dikes, Seminar on Physical Modeling: Application & Technology (PHYMAT) 2014, NAHRIM Seri Kembangan, Malaysia.
17. Hydar L. Ali, Thamer Ahmed Mohamed, **Badronnisa Yusuf**. Testing the accuracy of Sediment Transport Equations Using Field Data, World Research & Innovation Convention on Engineering and Technology 2014. Putrajaya, Malaysia.
18. **Badronnisa Y.**, Othman A.K., Siti Aminah O. 3D Fluid-Structure Interaction Model for Open Channel Flow with Submerged and Unsubmerged Flexible Vegetation. 6th International Conference on Advanced Computational Engineering and Experimenting – ACEX2012. July 2012. Istanbul, Turkey.
19. Megat Johari Megat Mohd Noor, Thamer Ahmed Mohamed, **Badronnisa Yusuf**, Ahmad Rodzi Mahmud, Nasreen Banu Noorul Ameen, Siti Fatimah Sadikon (Eds). 2002. Proceedings of Water Engineering and Geomatics, World Engineering Congress 1999. UPM Press, Serdang. pp 290. (ISBN 967-960-139-0).
20. Abdul Aziz Abdul Samad, Megat Johari Megat Mohd Noor, **Badronnisa Yusuf**, Mohd Razali Abdul Kadir, Azlan Abdul Aziz (Eds). 1999. Proceedings of Civil Engineering Conference, World Engineering Congress 1999. UPM Press, Serdang. pp 272. (ISBN 967-960-086-6).
21. **Badronnisa, Y.**, Goh, T.H., Mohd Shahrizal, A.R., Abdul Halim, G., Thamer, A. M. Assessment of Sediment Transport Formula: A Case of Sungai Muda Malaysia. Proceeding of World Engineering Congress 2010, Conference of Natural Resources and Green Technology, 2nd – 5th August 2010, Kuching, Sarawak, Malaysia
22. Montakhab, A., **Badronnisa, Y.**, Chien, C.W., Thamer, A.M. and Ghazali, A.H. Suspended Sediment Trapping Capacity of Aquatic Vegetation, Proceeding of World Engineering Congress 2010, Conference of Natural Resources and Green Technology, 2nd – 5th August 2010, Kuching, Sarawak, Malaysia.
23. **Badronnisa Yusuf**, Othman A. Karim, Siti Aminah Osman, Numerical Solution for Flow Through Flexible Submerged Vegetation, Proceedings FEIIC International Engineering Convention 2009, Damascus, Syria, 11-14 May 2009.
24. **Badronnisa Yusuf**, Othman A. Karim, Siti Aminah Osman, Computer Simulation of Open Channel Flow With Submerged Flexible Vegetation, Proceeding of Ninth Annual IEM Water Resources Colloquium 2007, 7 Julai 2007, JPS Ampang Kuala Lumpur.
25. **B. Yusuf**, A.H. Ghazali, M.J. Megat Mohd Noor, T.A.Mohammed, K. Saed, O. Abdul Karim, S.A.Osman, L.K.Lee, Effects Of Vegetation (Cabomba Aquatic) On The Velocity Distribution And Hydraulic Roughness, Brunei International Conference on Engineering and Technology 2005 (BICET 2005), 15-18 August 2005, Brunei Darusalam.
26. **Badronnisa Yusuf**, Othman Abdul Karim, Siti Aminah Osman, Flow Resistance Determination In Vegetated Channels: A Review, Seventh Annual IEM Water Resources Colloquium 2005, 18 Jun 2005, Petaling Jaya.
27. **Badronnisa, Y.**, Manal, A., Abd Halim G., Thamer A.M., Megat Johari M.M.N., Katayon, S., Faizal, M.K. Effects of Vegetation on the Hydraulic Roughness of an Open Channel Flow, Proceeding of 1st International Conference on Managing River in 21st Century, Pulau Pinang, pp 97-103.
28. Suleyman Aremu Muyibi, Abdul Halim Ghazali, **Badronnisa Yusuf**, Muhannad Ahmad Mohammad. Effects of Tides on Channel Geometry and Flow in Klang River Estuary, Proceeding of 1st International Conference on Managing River in 21st Century, REDAC, P.Pinang, pp 81-85.
29. M.J. Megat Mohd Noor, K. Saed, A.H. Ghazali, **B.Yusuf**, T.A. Mohammed, A. Jusoh, H. Nagaoka,

- H. Aya, Performance of Flat Sheet Membrane Bioreactor in Treating Domestic Sewage, Asia Water 2004, The Mines, Kuala Lumpur, pp 1 - 5.
30. Ahmed H Brima, Suleyman A. Muyibi, Thamer A. Mohammed, Megat Johari Megat Mohd Noor, Abdul Halim Ghazali, **Badronnisa Yusuf**. Comparative Studies Between Conventional Treatment of Surface Water and Direct Filtration Using Moringa Oleifera Seed Extract as Primary Coagulant. Proceeding of International Water Association Conference on Environmental Biotechnology, December, Kuala Lumpur.
 31. Thamer Ahmed Mohammed, Abdul Halim Ghazali, Megat Johari M. M. Noor, **Badronnisa Yusuf**. Urban River Restoration and Channel Improvement for Flood Mitigation with Environmental Consideration, Proceedings of East Asia Regional Seminar on River Restoration 2003, Kuala Lumpur.
 32. Thamer Ahmed Mohammed, Megat Johari M. M. Noor, Mohd. Iskandar Sapong, Abdul Halim Ghazali, **Badronnisa Yusuf**, and Katayon Saed. Quantitative and Qualitative Analysis for Rainwater Harvesting for Experimental House, Proceedings of the International Conference on Industrialised Building Systems 2003, Kuala Lumpur.
 33. **Badronnisa Yusuf**, Zainairiah, Z.A., Mohd Zaki, M.A., Abdul Halim Ghazali, Thamer A.M. Probability Distribution of Annual Maximum Flow for Peninsular Malaysia, Proceedings of Water Engineering & Geomatics 2002, 2nd. World Engineering Congress, Kuching, pp 148 -154.
 34. Ratna Rajah Sipiragasam, Abdul Halim Ghazali, Thamer Ahmed Mohamed, **Badronnisa Yusuf**, Chong Sun Fatt. Derivation of IDF Curves for Short Duration Storms of Low Return Periods for Peninsular Malaysia, Proceedings of Water Engineering & Geomatics 2002, 2nd. World Engineering Congress, Kuching, pp 36 - 40.
 35. Thamer Ahmed Mohamed, Abdul Halim Ghazali, Megat Johari Megat Mohd Noor, **Badronnisa Yusuf**. Estimation of Physical Losses from Water Supply Distribution Systems in Malaysia, Proceedings of Water Engineering & Geomatics 2002, 2nd. World Engineering Congress, Kuching, pp 160 - 163.
 36. Thamer Ahmed Mohamed, Salim Said, T.T. Chaim, Abdul Halim Ghazali, Megat Johari Megat Mohd Noor, **Badronnisa Yusuf**. Quantitative and Qualitative Control of Flood Water in the Kemasin Semerak Area, Kelantan, Malaysia, Proceedings of Water Engineering & Geomatics 2002, 2nd. World Engineering Congress, Kuching, pp 139 - 141.
 37. Megat Johari Megat Mohd Noor, Abdul Halim Ghazali, Thamer Ahmed Mohamed, **Badronnisa Yusuf**, Aziz F. Eluobaidy. Master of Science (MS) Curriculum in Water Engineering at University Putra Malaysia, Proceedings of Engineering Education, Training & Policy 2002, 2nd. World Engineering Congress, Kuching.
 38. Thamer Ahmed Mohamed, Abdul Halim Ghazali, **Badronnisa Yusuf**, Megat Johari Megat Mohd Noor, Salim Said. Modelling the Effectiveness of Detention Ponds in Improving the Quality of Storm Water, Proceedings of International Water Association Conference on Water and Wastewater Management for Developing Countries 2001, Volume 2, p 292-299.
 39. Katayon S., **Badronnisa, Y.**, Megat Johari, M.M.N., Aussam M. A., Study of Leakage in Water Supply Pipeline Network, Water Management for Sustainable Environment, August 25-26, 2004, Shah Alam Malaysia.
 40. Thamer Ahmed Mohamed, Abdul Halim Ghazali, Salim Said, Megat Johari Megat Mohd Noor, **Badronnisa Yusuf**. Modelling the effectiveness of the Detention Ponds in Improving the Quality of Storm water, Seminar on Technologies of Water Resources Management 2002, UIA.

Books /Book Chapter/Editor

1. Suleyman A. Muyibi and Badronnisa Yusuf. 2000. *Hydraulics for Engineers and Technologists*. UPM Press, Serdang, pp 164. (ISBN-983-2373-01-08)
2. Hasfalina Che Man, Salmiaton Ali, Badronnisa Yusuf, Rozita Omar, Samsuzana Abdul Aziz, Hazmin Ali, Aida Isma. (Eds). 2010. Proceedings of Natural Resources and Green Technology Conference, World Engineering Congress 2010. FEIIC. pp 160
3. Abdul Aziz Abdul Samad, Megat Johari Megat Mohd Noor, Badronnisa Yusuf, Mohd Razali Abdul Kadir, Azlan Abdul Aziz (Ed.), *World Engineering Congress 1999, Towards the Engineering Vision: Global Challenges and Issues*, UPM Press, p 275. (ISBN 967-960-086-6)
4. Megat Johari Megat Mohd Noor, Thamer Ahmed Mohamed, Badronnisa Yusuf, Ahmad Rodzi Mahmud, Nasreen Banu Noorul Ameen, Siti Fatimah Sadikon (Ed.), *Proceeding of Water Engineering and Geomatics, 2nd World Engineering Congress 2007*, UPM Press, p 290. (ISBN 967-

960-145-5)

5. Badronnisa Yusuf, Sejarah Bermula, In: 30 tahun Jabatan Kejuteraan Awam.1985-2015, Mohd Sharizal Ab. Razak, Aidi Hizami Ales@Alias, Nabilah Abu Bakar, Raizul Saifulnaz Muhammad Rashid (Ed.), UPM Press. 1-11. 2016 (ISBN 978-967-344-592-9)

Research Grants				
Project Leader				
No	Project Title	Amount (RM)	Year	Source of Fund
1.	Simulation of a Tidal River	10,000	2000-2001	UPM
2.	Modeling the Effects of Vegetation on the Hydraulic Performance and Roughness of an Open Channel Flow	50,000	2002-2003	FRGS, UPM
3.	Modeling the Effects of Vegetation on the Hydraulic Performance and Water Quality in a Tropical River System	212,000	2003-2005	IRPA, MOSTI
4.	Development of a Computer-Based System for Design and Management of Vegetated Waterways	140,000	2007-2009	Science Fund, MOSTI
5.	Numerical Models for Suspended Sediment Transport in Vegetated Waterways	44,000	2010-2012	FRGS, MOSTI
6.	Vegetation Porosity Estimation in Vegetated Waterways	50,000	2012-2014	RUGS, UPM
7.	Modelling Flow with Infiltration in Porous Open Channels	107,400	2015-2018	Sciencefund, MOSTI
8.	Modelling Sediment Transport in a Branching Channel System	20,000	2015-2017	Putra Grant, UPM
9.	Channel Stability Index (CSI) for Mountainous Rives in Malaysia by Incorporating Morphological Approach	24,000	2018-2021	Putra Grant, UPM
Project Member				
1.	Design and development of Membrane Bioreactor for Treating High Strength Municipal Wastewater	172,160	2002-2004	IRPA, MOSTI
2.	Development of Bio-composite Interlocking Block System for River Revetment	157,000	2003-2005	IRPA, MOSTI
3.	Proposed Integrated Mitigation System for Tsunami	146,352	2012-2014	Sciencefund, MOSTI
4.	Investigating the kinetics of co-digestion of Rice Straw Leachate and Domestic Wastewater for Optimal Biogas Production in Upflow Anaerobic Sludge Blanket	76,000	2014-2016	FRGS, MOHE
5.	Braided River Enhancement Using Spur Dikes	110,000	2014-2016	Putra Grant, UPM
6.	Modelling the Stability of Embayed Beaches along the Coasts of Peninsular Malaysia	55,000	2016-2018	Putra Grant, UPM
7.	Flood risk assessment for a vulnerable riverine residential area in the north east states of Peninsular Malaysia	60,000	2017-2019	Putra Grant, UPM

8.	Innovative designs of sustainable agro-hydro-health systems for off-grid communities in a changing Malaysia	£45,200 (RM245,933)	2017-2018	Newton Fund, Researcher Link Workshop Grant, British Council,UK
9.	Development of an Integrated Remote Sensing and GIS Approach For Assessing Urban Environmental Impacts on the Quality of Rooftop-Harvested Rainwater	98,200	2017-2019	Putra Grant, UPM
10.	A laboratory scale study on eco-friendly integrated storage for drainage system in urban area.	45,500	2018-2020	Putra Grant, UPM
11.	Flood Impacts Across Scales – Informing models of flood exposure and Vulnerability Via an Integrated Multi-Scale Approach	249,924	2019-2021	MYPAIR (Dana Padanan Antarabangsa, Kementerian Pendidikan Malaysia)

Awards/Recognition

No	Award Type	Title	Award Authority	Level	Year
1.	Certificate	Excellence Service	Universiti Putra Malaysia	University	2017
2.	Certificate	Excellence Service	Universiti Putra Malaysia	University	2017
3.	Certificate	Excellence Service	Universiti Putra Malaysia	University	2016
4.	Certificate	Excellence Service	Universiti Putra Malaysia	University	2015
5.	Certificate	Excellence Service	Universiti Putra Malaysia	University	2014
6.	Award	Excellence Service	Universiti Putra Malaysia	University	2012
7.	Certificate	Excellent Teaching	Faculty of Engineering	Faculty	2012
8.	Silver Medal	Drying and Salt Extraction of Moringa Oleifera on its Coagulation in High Turbidity Water	PRPI , Universiti Putra Malaysia	University	2011
9.	Certificate	Excellent Service	Universiti Putra Malaysia	University	2011
10.	Certificate	Excellent Teaching	Faculty of Engineering	Faculty	2010
11.	Certificate	Excellent Teaching	Faculty of Engineering	Faculty	2009
12.	Silver medal	Eco-polymer Coagulant	ITEX	National	2006
13.	Silver Medal	Bio-composite Revetment Block	ITEX	National	2005.
14.	Bronze medal	Rain Harvester	PRPI , UPM	University	2005
15.	Award	Excellent Service	Universiti Putra Malaysia	University	2003
16.	Certificate	ISO 9001:2000 QMS Lead Auditor Certificate	Systems 3 Pty Ltd, Australia	International	2003
17.	Certificate	Excellent Service Certificate	Universiti Putra Malaysia	University	2002
18.	Certificate	Excellent Teaching	Faculty of Engineering	Faculty	2001

Professional Services

No	Year	Title	Authority
1.	2004	Model Study of Stormwater Facilities for Flood Control Project Sg.Air Hitam, Selangor.	Perunding Wan Mokhtar Sdn Bhd
2.	2002	Flow Master Trainer	Politeknik Ungku Omar
3.	2003	Flow Master Trainer	Politeknik Melaka
4.	2004	Haestad Software trainer	Politeknik Sabah

Professional Services			
No	Year	Title	Authority
5.	2011	Auditor Penarafan Sistem Pengukuran Kualiti dan Kesetaraan Kolej Swasta (MyQuest)	Kementerian Pengajian Tinggi
6.	2011	Short Course on Flash Flood Management.	Al Amr for Engineering Consultant Arab Saudi
7.	2013	Auditor MyQuest	Kementerian Pengajian Tinggi
9.	2014	Panel Temuduga BYDPA	Jabatan Perkhidmatan Awam
10.	2014	Juruaudit Kajian Sistem Penarafan Kolej Komuniti (MySPeKK)	Kementerian Pendidikan Malaysia
11.	2015	Auditor MyQuest	Kementerian Pengajian Tinggi
12.	2015	Reviewer	Jurnal Teknologi
13.	2015	Reviewer	Sains Malaysiana
14.	2015	Technical Reviewer	7th International Conference On Sustainable Agriculture For Food, Energy And Industry In Regional And Global Context
15.	2015	Technical Reviewer	PAWEES-INWEPF Joint International Conference 2015
16.	2015	Technical Reviewer	2nd International Conference on Environmental and Biological Sciences
17.	2015	Guest Editor	Jurnal Teknologi Vol. 76, No 15: Solution for Sustainable Water and Environmental Management. Special Issue Pawees and INWEPF International Conference 2015
18.	2015	Panel Temuduga HLP	Jabatan Perkhidmatan Awam
19.	2016	Reviewer	Journal of Advanced Civil Engineering Practice and Research
20.	2016	Reviewer	International Conference on Sustainable Environment and Water Research
21.	2016	Guest Editor	Jurnal Teknologi Vol.78, No.1-2 (2016) Volume II Solution for Sustainable Water and Environmental Management. Special Issue Pawees and INWEPF International Conference 2015
22.	2016	Panel Temuduga BYDPA	Jabatan Perkhidmatan Awam
23.	2016-2017	Scientific Committee	37th IAHR WORLD CONGRESS 2017
24.	2017	Auditor MyQuest	Kementerian Pengajian Tinggi
25.	2018	Panel Temuduga BYDPA	Jabatan Perkhidmatan Awam
26.	2019	Reviewer	Journal of Hydraulic Engineering
27.	2019	Panel Pakar Program Pemindahan Ilmu (PUTRAPIL) Modern Pig Farming System, Negeri Melaka	Kerajaan Negeri Melaka

Examiner of Students (PhD)

No.	Name	Title	Year
1.	HamidReza Ahmad Zadeh Araj	Assessment of Climate Change Impacts on Crop Production Considering Uncertainty of General Circulation Models	2019
2.	Ernieza Suhana Mokhtar	Enhanced Flood Inundation Mapping Using Integration of GIS and Hydraulic Modelling	2018
3.	Ali Omran Muhsin	Productivity Improvement in Low Latitude Areas Using a New Double Slope Solar Still Hybrid with	2018

Professional Services			
No	Year	Title	Authority
		Rubber Scrappers	
4.	Saad Shauket Sammen	Simulation of Dam Break with Consideration of Climate Change Impacts	2017
5.	Ng Jin Lin	Development of Stochastic Rainfall Generator and its Uncertainty Quantification for Kelantan River Basin Malaysia	2017
6.	Aminu Ibrahim	Light Buoyant Foundation on Peat Using Bamboo Culms and Plastic bags	2017
7.	Nkululeko Simeon Dlamini	Decision Support System for Water Allocation in a Rice Irrigation Scheme under Climate Change Scenarios	2017
8.	Oloruntade Ajayi Johnson	Modelling the Impacts of Climate Change on Hydrology and Water Resources in the Niger-South Subcatchment of the Niger River Basin, Nigeria	2016
9.	Razieh Shojanoori	Automated Urban Tree Species Detection Using Novel Object-Based Generic Rule Sets From High Resolution Satellite Imagery	2016
10.	Hadi Galavi	Uncertainty Analysis of Climate Change on Streamflows	2015
11.	Mahdi Amirabadizadeh	Modelling the Climate Change and its Impact on Hydrological Regime of the Langat River Basin	2015
12.	Aida Tayebian	Optimisation of Multi Reservoir System for Hydropower Generation by Using Genetic Algorithm and consideration of Climate Change	2015
13.	Adesiji Adeolu Richard	Impacts of Land Use Management Typology Alteration on Water Quality in Tropoical Peatland Streams in South Selangor Peatland Swamps	2015
14.	Yashar Falamarzi	Impact of Climate and Land Use Changes on Runoff at Hulu Rangat Basin	2014
15.	Mohammad Mehdi Ghasemi	A Spatial Decision Support System Framework For Optimisation of Cropping Pattern and Water Resource Allocation At Pasargard Plain, Fars Province, Iran.	2014
16.	Muhammed Saleh Saad Nusari	Simulation and Control of Seawater Intrusion into Coastal Aquifers by Using Density Dependent Approach	2014
17.	Pezhman Taherei Ghazvinie	Modelling of Contraction Scour at the Site of Abutment Bridge	2013
18.	Mohamad Gholam Pour	Forecasting and Operation Models for the Management of Minab Reservoirs in Southern Iran	2012
19.	Ali Haghi Zadeh	Flood Forecast Modelling for the Neka Catchment in Mazandaran Province, Northen Iran	2012
20.	Allahiar nazemi	Flow hydraulics and sediment transport through pervious rockfill dam	2011
21.	Mostafa Ali Mohamed Bezaghta	Modeling Evaporation and Evaporation Reduction From Impunding Reservoir	2011
22.	Abdul Wahab	Development of ARCSWAT-based Decision Support System for Optimal Design and Operation of Ponds for Watershed Runoff Management	2010
23.	Ehsan Goodarzi	Risk and Uncertainty Analysis of Embankment Dams	2010
24.	Majid Hosseini	Effect of Land Use Changes on Catchment Water Balance and Water Quality in Taleghan Iran	2010
25.	Waleed Abdul Rashid Mahmood Yacoob	Watershed Runoff Estimation Using Radar-Derived Rainfall Data from Rainfall Station	2009

Student Supervision

PhD (Main Supervisor)

No.	Name	Title	Status
1.	Amir Montakab (GS28453)	Flow Characteristics and Sediment Transport in a Channel with Emergent Flexible Vegetation	Graduated
2.	Nashwan Kamal Aldeen Mohammed (GS38681)	Modelling of Flow and Sediment in a Branching Channel System	Graduated
3.	Izni Zohadi (GS38121)	Vegetation Density Estimation for 2D Flood Modelling	Graduated
4.	Ali Hydar Lafta Ali (GS47961)	Hydrodynamics and Morphodynamics Features at River Confluences	Passed Viva
5.	Nor Azidawati Haron (GS48057)	Mountain River Index Based on Hydraulics Geometry, Turbulence of Flow and Sediment Transport Attributes.	Ongoing
6.	Zaty Aktar Mokhtar (GS40426)	Modeling of Dynamic Force of Tsunami Waves on Seawalls with Different Configurations	Graduated
7.	Saiful Bahri Hamzah (GS41116)	Physical Modelling of Tsunami Induced Scour at Coastal Road	Ongoing

MS with thesis (Main Supervisor)

No.	Name	Title	Status
1.	Manal M. Abood (GS25513)	Effects of Napier and Cattail Grasses on Open Channel Flow Characteristics	Graduated
2.	Osela Noraadin Abdullah (GS29528)	Estimation of Vegetation Density Using Image Analysis and Its Effect On Hydraulic Characteristics of an Open Channel.	Graduated

MS without Thesis (Main Supervisor)

No.	Name	Title	Status
1.	Aussam Mohammed Ali (2002/2003)	Study of Leakage in Water Supply Network	Graduated
2.	Mohd Hairul Khamidun (2009/2010)	Sediment Removal by Grass Filter Strip	Graduated
3.	Ros Erwina Roslan (2009/2010)	Development of Web based Software for Designing Grass Lined Channel	Graduated
4.	Soheil Yahyapour (2011/2012)	Sediment Transport in a Vegetated Channel	Graduated
5.	Maswira Mahasan (2011/2012)	Effectiveness of Grass Filter Strip in Sediment Removal	Graduated
6.	Fadzlina Ibrahim (2012/2013)	Performance of a Rain Garden in Removing Heavy Metals	Graduated
7.	Shareena Abdul Aziz (2015/2016)	Effect of Wave Energy on Rubble Mount Wave Breaker	Graduated
8.	Thian Kim Tai (2015/2016)	A Study on Sedimentation at Batu Dam, Selangor	Graduated
9.	Muhammad Najib Haikal Mohammed Shamsuddin (2015/2016)	Performance of In-ground rain garden using waste product as filter media	Graduated
10.	Raidan Saleh Maqtan (2016/2017)	Overtopping Scour at the Seawall due to Tsunami Bores	Graduated
11.	Sharina Sulaiman (2017/2018)	1D Numerical Model of High Tides in Sg Selangor River Basin	Completed

No.	Name	Title	Status
12.	Bao Sihang (2018/2019)	Ecofriendly Storage for Urban Drainage System	Completed
13.	Ibrahim Ali Dakheel (2019/2020)	Improving Erosion and Sedimentation at the Branch Channel Using Vanes	Ongoing

PhD (Co-Supervisor)

No.	Name	Title	Status
1.	Majid Mirzaei (GS22823)	Uncertainty Analysis of Extreme Hydrological Events In The Semi-Arid Zayanderood Basin	Graduated
2.	Nordila Ahmad (GS32256)	Physical Modeling of Local Scour Around Wide and Skewed Piers	Graduated
3.	Amirsaeed Farhangi (GS32807)	Clear Water Scour Around Submerged Skewed Bridge with and without Pier	Graduated
4.	Yousif Hashim Abdullah (GS37669)	Optimization of Operations of Reservoir Systems for Hydropower Generation In Tigris River Basin	Graduated
5.	Mena Ahmed Dawad Alsawaf (GS47961)	Effects of Spur Dikes in a Braided Channel	Graduated
6.	Talal Ahmad Basheer (GS37222)	Simulation of Dams Break	Graduated
7.	Ahmed Mohammed Sami Al Janabi (GS37471)	Modelling of Flow with Infiltration in Porous Open Channels	Graduated
8.	Fadhliani (GS47254)	Modeling Land Use Change Impacts on Water Resources in a Data Scarce Region	Ongoing
9.	Masayu Norman (GS44433)	Assessing environmental Impacts of Roofing Materials on Harvested Rainwater Quality Using Remote Sensing Approaches	Passed Viva
10.	Mohammed Ahmed Aubad (GS22090)	Numerical Modelling of Seawater Intrusion Mechanisms in Salalah Plain Aquifer, Oman	Ongoing
11.	Ahmad Jamilu Bala (GS46022)	Groundwater Prospecting Using Termite Mounds' Spatial Dimensions in a Tropical Region	Submitted
12.	Mohammed Ahmed Jasim (GS51823)	Mapping Spatio-Temporal Dynamics of Tigris and Euphrates Iraq Using Radar Imagery Data and their Effects on Climate, Vegetation and Desertification	Ongoing
13.	Nurul Ain Wahida Mohd Radzali (GS50748)	Development of Integrated Remote Sensing and GIS Approach for Assessing Urban Environmental Impacts on the Quality of Rooftop Harvested Rainwater	Ongoing

Referee

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