### Curriculum Vitae

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| **I. Personal Particulars****Name:** MOHAMAD FARED BIN MURSHED**Current position:** SENIOR LECTURER |
| II. A. Academic and Professional Qualifications (Please list all academic qualifications, from your first degree, in chronological order)

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| --- | --- | --- | --- |
| **Year** | **Degree** | **Discipline** | **University** |
| 200420072015 | Bachelor of Engineering (hons)Master of SciencePhD  | Civil EngineeringCivil EngineeringEnvironmental Engineering | Universiti Sains MalaysiaUniversiti Sains MalaysiaUniversity of South Australia, Australia |

 |
| 1. **Titles of postgraduate theses**

**M.Sc:** Removal of turbidity, suspended solid and aluminium using DAF pilot plant at Jalan Baru WTP**PhD:** Modelling and Optimization of Drinking Water Treatment Processes for Waters of the River Murray, South Australia   |
| 1. **Work Experience** (Please list your relevant experiences in chronological order)

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| --- | --- | --- | --- |
| **Year** | **Position** | **Field of Work** | **Place of Work** |
| 2007-20082008-present | Engineer/Cost ControllerSenior Lecturer | Shipyard maintenanceWater & Environmental Engineering | MMHE-SHI LNG Sdn. Bhd, Pasir Gudang, JohorUniversiti Sains Malaysia, Engineering Campus, Nibong Tebal, Penang |

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| 1. **Main Current Research Areas** (Please list a maximum of three)

* Water Treatment Technology
* Sustainable M
* Hydarulics & Groundwater Treatment
* Wastwater Treatment
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| **1** | **Research Publications** |
| (b) | **Journal** **i) ISI Journal [9]**1. **MF Murshed**, R Mohamadpor, C Chow, **2021**' Comparing the log-response curve and adsorption isotherm model for removing dissolved organic matter during La Nina event' Water & Environment Journal, 35 (1), 133-147
2. SA Ishak, **MF Murshed**, H Md Akil, N Ismail, SZ Md Rasib, AAS Al-Gheethi, **2020** 'The Application of Modified Natural Polymers in Toxicant Dye Compounds Wastewater: A Review' *Water*, Vol. 7, 2032
3. Mohammadpour, R., Ghani, A.A., Sabzevari, T., & **Murshed, M.F. 2019**, ‘Local scour around complex abutments’, *ISH Journal of Hydaulic Engineering, DOI: 10.1080/09715010.2019.1607783*
4. **Murshed, MF**, Aslam, Z, Lewis, R, Chow, CWK, Wang, D, Drikas, M & Van Leeuwen, J. 2014, 'Changes in the quality of river water before and after a major flood event associated with a La Niña cycle and treatment requirements for drinking purposes', *Journal of Environmental Sciences*, vol. 26, no. 9, pp.
5. **Murshed, MF**, Van Leeuwen, J, Chow, CWK & Drikas, M. **2013**, 'Modification of jar testing protocol combined with mEnCo model predicted dose (MPD) to predict DOM removal for surface water', *Water science and Technology: Water Supply,* vol*.* 14, no. 3, pp. 358–366.
6. Aslam, Z, Chow, CWK, **Murshed, MF**, van Leeuwen, J, Drikas, M & Wang, D. **2013**, 'Variation in character and treatability of organics in river water: An assessment by HPAC and alum coagulation', *Separation and Purification Technology,* vol*.* 120, no. 0, 12/13/, pp. 162-171.
7. Syafalni\*, Lim, HK, Ismail, N, Abustan, I, **Murshed, MF** & Ahmad, A 2012, 'Treatment of landfill leachate by using lateritic soil as a natural coagulant', *J Environ Manage,* vol*.* 112, pp. 353-359.
8. Xing, L, **Murshed, MF**, Lo, T, Fabris, R, Chow, CWK, van Leeuwen, J, Drikas, M & Wang, D. **2012**, 'Characterization of organic matter in alum treated drinking water using high performance liquid chromatography and resin fractionation', *Chemical Engineering Journal,* vol*.* 192, no. 0, pp. 186-191.
9. Palaniandy, P, Adlan, MN, Aziz, HA & **Murshed, MF** 2010, 'Application of dissolved air flotation (DAF) in semi-aerobic leachate treatment', *Chemical Engineering Journal,* vol*.* 157, no. 2–3, pp. 316-322.

**ii) SCOPUS Journal [11]*** 1. **Murshed, M.F**., Kamaruzaman, A., Ab Aziz, N.A., Mokhtar Kamal, N.H. 2020, ‘Influence of grain size distribution towards improvements of turbidity, colour and suspended particles in a riverbank filtration process - A column study’ *IOP Conference Series: Materials Science and Engineering*, 920(1)
	2. Alrousan, D., **Murshed, M.F. 2019,** ‘Determination of BOD kinetic parameters of domestic and industrial wastewater using different mathematical methods’, *AIP Conference Proceedings,* 2129
	3. Ishak, S.A., **Murshed, M.F.**, Ismail, I. & Azme, N.N.M. **2019,** ‘Combination of iron chloride and polyacrylamide as coagulant-Flocculants to remove pollutants in dye wastewater’,*The International of Integrated Engineering’*, Vol. 11, 2 (2019), 78-86.
	4. Azme, N.N.M. & **Murshed, M.F., 2018**, ‘Treatability of stabilize landfill leachate by using pressmud ash as an adsorbent’, *IOP Conference Series Earth and Environment Science*, vol. 140,
	5. Ariffin, N., Abdullah, M.M.A.B., Zainol, R.R.M.A., **Murshed, M.F. 2017**, ‘Geopolymer as an adsorbent of heavy metal: A review’, AIP Conference Proceedings, 1885
	6. Ariffin, N., Abdullah, M.M.A.B., Zainol, M.R.R., **Murshed, M.F**., Faris, M.A., Bayuaji, R., **2017**, ‘Review on adsorption of heavy metal in wastewater by using geopolymer’, *MATEC web of conference*, Vol. 97, pp. 10-23
	7. Rosli, N.A., **Murshed, M.F**., Adlan, M.N. **2017**, ‘Experiment and Computational Fluid Dynamics (CFD) simulation of flow characteristics in dissolved air flotation tank’, Malaysian Construction Research Journal, 20(3), pp. 43-61
	8. Sapingi, M.S.M., Pishal, M., **Murshed, M.F.**, **2017**, ‘Natural organic matter removal efficiency by coagulation’, *AIP Conference Proceeding*, Vol. 1892, pp. 040023
	9. Ariffin, N., Abdullah, M.M.A.B., Zainol, M.R.R., **Murshed, M.F**., **2017**, ‘Geopolymer as an adsorbent of heavy metal: review’, *AIP Conference Proceedings*, Vol. 1885, pp. 020030
	10. **Murshed, M.F.**, Mahmad, MKN, MAZ, Mohd Remy Rozainy, Abustan, I & Baharun, N. **2016**, ‘Removal of Cadmium and Zinc contaminations in landfill leachate by using electrocoagulation process’, *Journal Material sciences*, Vol. 857, pp. 519.
	11. Aisyah, IS, **Murshed, M.F.** & Norli, I. **2016**, ‘Influence of different treatment condition on biopolymer yield production for coagulation-flocculation process’ *Material Science and Engineering*, Vol. 133, pp. 533
 |
| (c) | **Chapter In Research Book [2]**1. Azme, N.N.M., Murshed, M.F., Ishak, S.A., Adnan, M.A.M. 2020, ‘
2. Palaniandy, P., Adlan, M.N., Aziz, H.A., **Murshed, M.F**., Hung, Y.T., **2017**. ‘Dissolved air flotation (DAF) in wastewater treament’, In. Hung, Y.T., Wang, L.K., Wang, M.S., Shammas, N.K. Chen, J.P. ed. Waste Treatment in the Service and Utility Industries, Florida, US. CRC Press, Taylor & Francis Group, Chapter 5
3. Hung, Y.T., Aziz, H.A., **Murshed, M.F**. **2012**. Storm water management planning and design. In. Hung, Y.T., Wang, L.K., Shammas, N.K. ed. Handbook of Environment and Waste Management: Air and Water Pollution Control, Singapore. World scientific publishing, pp 405-409
 |
| (d) | **Proceeding (each publication)** 1. **Murshed, M. F**., Billes, E., Chow, C. W. K., van Leeuwen, J. A., Wang, D. and Drikas, M. 2012 Rapid treatability assessment of NOM in the River Murray during high flow water. Conference proceedings of OZ water 2012 (Australia’s national water conference & exhibition) OZWATER’12 on 9-10 May 2012, Sydney, Australia.
2. Aslam, Z., **Murshed, M. F**., van Leeuwen, J. A., Chow, C. W. K., Drikas, M. 2011 Peak fitting and modelling of NOM removal by coagulation from River Murray Water in South Australia. Modelling and Simulation Society of Australia and New Zealand, MODSIM 2011, December 12 - 16 2011, Perth, Australia.
3. **Murshed, M.F**., Rosli, N.A., Adlan, M.N., Syafalni. 2009. Study of the characteristic in dissolved air flotation tank using CFD”, 5th National Conference for Civil Engineering, 27-29 October 2009, Corus Hotel, Kuala Lumpur, Malaysia. ISBN 978-983-42190-2-4 In “Meniti Pembanguna Lestari Dalam Kejuruteraan Awam” (Nor Azam Ramli et al., eds).
4. Adlan, M.N., Aziz, H.A., Maung, H.T. and **Murshed, M.F.** 2007. Horizontal Flow Roughing Filter for the Removals of Turbidity and Coliform Organisms. Proceeding International Conference on Water Management and Technology Applications in Developing Countries, Kuala Lumpur Convention Centre, 14-16 May, 2007.
5. Adlan, M.N., **Murshed, M.F**., Aziz, H.A., 2006, Pilot plant study on dissolved air flotation process for removal of turbidity and suspended solids, Proceedings, 4th. Asiawater 2006, 21-22 March 2006, Mines Resort City, Kuala Lumpur
6. Asaari, F.A.H., Adlan, M.N., Aziz, H.A., Ahamad, M.S.S., **Murshed, M.F**., Syahjaya, R.P. 2005, Laboratory Study on the Control of Algal Bloom in Lake Harapan Using Low Concentration of Copper Sulphate, Proceedings, International Conference on Healthy University, USM, 20-22 Nov. 2005.
7. Adlan, M.N., Aziz, H.A., Asaari, F.A.H., Ahamad, M.S.S., Ibrahim, M.I.M., **Murshed, M.F**., 2004, Water Quality Assessment For Tasik Harapan, Universiti Sains Malaysia, Ecomod, September, 2004.

Note:\*Presenter |
| (e) | **Conference Presentation (oral or poster)** **1. Murshed, M. F.,** van Leeuwen, J. **2013**.Optimization of Drinking Water Treatment Processes for Waters of the River Murray, South Australia. The 1st Higher Degree Symposium & Research Day on 25 May 2013, University of South Australia, Mawson Lakes, South Australia, Australia.**2. Murshed, M. F**., van Leeuwen, J. A., Chow, C. W. K., Wang, D. and Hussain, S. **2011** Impact of climate change on dissolved organic matter and its treatability using alum and HPAC for River Murray, South Australia. Conference Proceeding at The 8th Asia Pacific Conference on Sustainable Energy and Environmental Technologies (APCSEET 2011) on 10-13 July 2011, Adelaide Australia**3**.Wang, D., Xing, L., **Murshed, M. F**., Fabris, R., Lo, T. W. C., Chow, C. W. K., van Leeuwen, J. A. and Drikas, M. **2011** Characterization of Organic Matter in Alum Treated Drinking Water Using Reverse Phase-High Performance Liquid Chromatography and Resin Fractionation. Conference Proceeding at Fourth IWA Specialty Conference on Natural Organic Matter (NOM): From Source to Tap and Beyond” on July 27-29, 2011. Costa Mesa, California, USA 92626**4.Murshed, M. F**., Billes, E., Chow, C. W. K., van Leeuwen, J. A., Wang, D. and Drikas, M. **2011** Determination of the Treatability of Natural Organic Matter using a Special Jar Testing Procedure Incorporation with Advanced Organic Characterisation Technique. 19th Annual RACI Analytical and Environmental Divisions Research and Developments Topics Conference for 2011 on 6-9 November 2011, La Trobe University, Melbourne, Australia**5.** **Mohamad, M.F**., Adlan, M.N., Mohamad, N.A.A and Aziz, H.A **2006** Pilot plant study on dissolved air flotation process for treatment surface water in Jalan Baru Treatment Plant, Parit Buntar, Perak. Proceeding 1st Civil Engineering Colloquium, School of Civil Engineering, USM, held 24-25th May 2006**.**Note:\*Presenter |
| **2.** | **Research Grant** |
| (a) | **National** 1. Sustainable surface drainage system for urban flood prevention and water reclamation, Long term research grant scheme (LRGS) DEC 2018-NOV 2021, RM125,000.00, **Mohamad Fared Murshed [Leader],** Nurul Hana bt Mokhtar Kamal, Nuridah Sabtu **- ACTIVE**
2. Protection of Drinking Water for Society:Source abstraction and treatment: Riverbank/bed filtration for drinking water source abstraction. Long term research grant scheme (LRGS) May 2012-Dec 2017, RM4,594,250.00, Mohd Nordin bin Adlan (programme Head), **Mohamad Fared Murshed [Co-researcher]-COMPLETED**
3. Investigation of Natural Organic Matter (NOM) characterization for disinfection by products (DBPs) formation and the option of its removal for drinking water purposes. Fundamental Research Grant Scheme (FRGS) December 2017-31 Mei 2017, RM 95,000.00, **Mohamad Fared bin Murshed [Leader]**, Puganeshwary Palaniandy-**COMPLETED**
 |
| (b) | **University** 1. Study of sludge from water treatment plant *(kajian enapcemar dari loji rawatan air minuman).* Icentive Grant USM. DEC 2009-DEC2010, RM 5,000, **Mohamad Fared Murshed [Project Leader]-COMPLETED**
2. Feasibility study of river bank filtration (RBF) physical model *(Kajian kebolehlaksanaan river bank filtration (RBF))*. Short Term Grant DEC 2010-DEC 2012, RM 37,150, **Mohamad Fared Murshed [Project Leader]**, Prof. Mohd Nordin Adlan, Prof Madya Dr. Syafalni **- COMPLETED**
3. Development of Waste-Derived Siliceous Materials as a Sorbent for Dye and Heavy Metal Removal , USM Short Term, 1/5/2010-30/4/2012, RM35,310.00, Irvan Dahlan (Project Leader), **Mohamad Fared Murshed (co-researcher)**. **- COMPLETED**
4. Treatability assessment of Natural Organic Matter (NOM) of Surface water and Groundwater for drinking water purposes, USM Short Term, 1/10/2014-1/10/2016, RM49,000.00, **Mohamad Fared murshed (Project Leader)**, Mohd Nordin Adlan, Ismail Abustan**.- COMPLETED**
5. Development of novel modelling approach for optimizing natural organic matter (NOM) removal in drinking water treatment process impacted by climate change. USM RUI, 15/4/2015-14/4/2018, RM163,800, **Mohamad Fared Murshed (Leader)**, Hamidi Abd. Aziz, Mohd Nordin Adlan, Fadzli Mohamed Nazri **– COMPLETED**
 |
| 3. | **Consultancy Work/Project** |
|  | 1. Ismail Bin Abustan, **Mohamad Fared Bin Murshed**, Mohd Azmi Bin Ismail, Mohd Remy Rozainy Bin Mohd Arif Zainol, Nabsiah Binti Abdul Wahid, Physical Hydraulic Model Study on Labyrinth Spillway , RM253,200.00, 01/12/2014-30/06/2017
2. Hamidi Bin Abdul Aziz @ Abdul Rahman, Ismail Bin Abustan, Kamar Shah Bin Ariffin, Mohamad Anuar Bin Kamaruddin, **Mohamad Fared Bin Murshed**, Mohd Nawawi Bin Mohd Nordin, Mohd Remy Rozainy Bin Mohd Arif Zainol, Mohd Suffian Bin Yusoff, Nuridah Binti Sabtu, Nurul Hana Binti Mokhtar Kamal, KAJIAN POTENSI AIR BUMI UNTUK KG. SG.CAWANG, TELUK INTAN, PERAK , RM40,000.00, 01/06/2017-30/11/2017
 |
| **4.** | **Teaching and Supervision** |
| (a) | **Undergraduate Teaching/Post-Graduate Teaching****Present Class**1. EAP 215/3: Water Supply and Water Treatment Engineering (UG)

**2.** EAP 581/4: Water Supply Engineering (MSc Mixed Mode)**3.** EAA 485/4: Integrated Design (UG)**4.** EAH 316/2: Hydraulic Structure (UG)**5.** EAA 492/6: Final Year Project (UG) **Previous Class**1. EAA 110/2: Civil Engineering Drawing (UG)-2008/2009
2. EAP 313/3: Wastewater Treatment Engineering (UG), 2008/2009
3. EAA 305/2: Hydraulics, Geotechnical & Environmental Engineering (UG)-2008/2009
4. EAS 151/3: Static (UG), 2014/2015
5. EAP 582/4: Wastewater Engineering (PG), 2014/2015
6. EAH 225/3: Hydraulics (UG), 2014-2016
7. EAH 221/3: Fluid Mechanics for Civil Engineer (UG), 2014-2016
8. EAK 163/3: Geomatic Engineering (UG), 2014-2016
 |
| (b) | **a) PhD (Research)****(i) Main Supervisor*** 1. Siti Aisyah bt Ishak, **2016-Present**: Development of noveling modelling approach for optimizing natural organic matter (NOM) removal in drinking water treatment process impacted by climate change **[Active]**

**b) Master’s Thesis (Research)****(i) Main Supervisor**1. Nurul nadiah bt Ishak, **2016 – 2020**: Study on the removal of COD, Suspended solid, color and turbidity from stabilized landfill leachate using pressmud ash as an adsorbent. **[Graduated]**
2. Doua’A Adnan Abd-majied Al-rousan, **2018 – 2019**: Determination of BOD kinematic parameters for different wastewater by using different mathematical model. **[Graduated]**
3. Mohd Sharizal b. Mohd Sapingi, **2015 – 2019**: Adsorption study of a heavy metals and natural organic matter (NOM) in groundwater using metakaolini. **[Graduated]**
4. Noor Amiza bt Ab Aziz, **2015-2018**: A physical model study of a riverbed filtration system for removal turbidity, colour and suspended solid for water clarification. **[Graduated]**

**(ii) Co-Supervisor**1. Muhammad Redzwan b. tamat, 2016 – 2017: Effect of various leachate components on production of acetic and butaric acids by clostidium Butrycum.**[Graduated]**

**c) Master’s Thesis (Mixed Mode)**1. **Main Supervisor**
2. Zaidin b. Matsin, **2018**: Metakaolin as an adsorbent for iron and color removal from groundwater. **[Graduated]**
3. Trifendy Aiman Syah b. Haji Sani, **2016**: The application of kaolin based geopolymer as an adsorbent for removal of iron from landfill leachate. **[Graduated]**
4. Nurhafizah bt Zakaria, **2015**: Identification of pathogenic bacteria isolated from raw and after sand filtration water at Lubok Buntar WTP. **[Graduated]**

**(ii) Co-Supervisor**1. Nor Azalina bt Rosli, **2009**: Study of flow characteristics in dissolved air flotation tank using computational fluid dynamics.
2. Mohd Hafiz bin Zawawi, **2009**: Water quality in dissolved air flotation treatment plant and efficiency of dissolved air flotation pilot plant.
3. Chan Kok Wah, **2009**: Treatment of dye wastewater by using granular activated carbon and zeolite filter.
4. Lim Han Kim **2009**: Treatment of landfill leachate by using lateritic soil as coagulant.
5. Ezlina bt Othman, **2009**: The performance of silica sand for leachate treatment
 |
| (c) | **Undergraduate Supervision****(i) Final Year as a Main Supervisor**1. Wan Nur Azlin Hanis Binti Jumahat, **2019**, Combination of coagulation-ultraviolet photocatalytic treatment by using zinc oxide with polyacrylamide and tannin for removal of colour.
2. Mohamad Hafizie Bin Mat Rowi, **2019**, The Application of metakaolin based polymer study for iron, manganese and colour removal from groundwater.
3. Luqman Hakim Bin Shawal, **2019**, Assessment of raw and coagulated latex wastewater of enhanced Aeration Sstabilization basin (ASB)
4. Aidil Azami Bin Mustafa, **2018**, study on the influence of the operational parameters on the removal of COD, BOD and colour of industrial wastewater treatment plant.
5. Nur Amira Nadia Binti Damanhuri, **2018**, Effectiveness of coagulation flocculation process for the removal of COD, Color and SS in industrial wastewater treatment.
6. Syarifah Nurhanani Binti Syed Junit, **2017,** Application of Chitosan as a natural coagulant in groundwater treatment.
7. Nurul Farahanes Binti Mohd Fadzil, **2017**, Evaluation of tannin as natural coagulant for pulp & paper mill wastewater.
8. Adilah Kamaruzaman, **2016**, Investigation of natural organic matter (NOM) on redox processes during riverbank filtration.
9. Humadevi Ramachandran, **2016**, Tretability assessment of organic matter derived from surface and subsurface soil.
10. Noor Syaima Binti Shuhaimi, **2015**, Optimum coagulant dose and pH for brackish surface water with high turbidity by using alum.
11. Munirah Binti Pishal, **2015**, Characterization of organic matter in surface water for drinking water purposes.
12. Nurul Hazirah Binti Rosli, **2015**, Investigation of natural organic matter removal for enhanced coagulation dose by using alum and ferric chloride.
13. Wan Shaifuddin b. Wan Mustapha **2010**: A column study to treat Kerian River for water clarififcation using different type of filter media.
14. Siti Khadijah Bt Esa **2010**: Performance of sewage oxidation pond in USM Engineering Campus
15. Mohd Anuar bin Sahul Hameed, **2009**: The effect of pipeline system on the quality of drinking water in Parit Buntar, Perak.
16. Izwan bin Husni, **2009**: Study of the sludge quality from water treatment plant at Jalan Baru Water Treatment Plant, Parit Buntar, Perak
17. Mohd Khairul bin Muhammad, **2009**: Determination of optimum dosage for Eutrophication water at Taman Sempadan, Parit Buntar, Perak.
18. Nur Sarhana bt Ahmad Jamil, **2009:** The Removal of color, COD and turbidity from semi-aerobik leachate using dissolved air flotation process.
19. Mohammad Hasrul Bin Azizan, **2009**, Study of chemical characteristics of Sungai Kerian water.
 |
| **4.** | **Academic recognition and leadership** |
| **(a)** | **Internal Examiner for Thesis:** 1. PhD Researh Mode
2. Master Research Mode
3. Mixed Mode Master Thesis
	1. Benedeth Flarine Anak Francis Samsar, 2014: Monitoring of indoor formaldehyde (HCHO) concentration from batik’s outlets and the differences of HCHO levels between adult and children.
	2. Nur Sakinah bt Azhar, 2014: A comparative study of fine particulate matter (PM2.5) from quarry and cleared land activities
	3. Nur Najehah bt Mohd Sabri, 2014: Monitoring of formaldehyde in batik manufacturing processes*.*
	4. Fatihah Azmi, 2009: Biological treatment of semi-aerobic younf leachate using yeast extract
	5. Tang Soke Kwan, 2009: Production of a bioflocculant by chryseomonas luteola and its application in dye wastewater treatment
 |
| **(b)** | **Invited Speaker/Invited Lecture/workshop/shortcourse**1. International
2. National
3. University
 |
| **(c)** | **Awards for Innovation**1. Participant of Ministry of Science and Technology Exhibition (MOSTI 2004), PWTC Kuala Lumpur, Wins bronze medal for Roughing Filter for Orang Asli Settlement. Mohd Nordin Adlan, Hamidi Abdul Aziz, **Mohamad Fared Murshed**

**2**. Participant of International Invention Innovation Industrial Design and Technology Exhibition (ITEX 2005), PWTC, Kuala Lumpur, Wins gold medal and best industrial design for ‘Air Injection Nozzle for Dissolved Air Flotation Process’. Mohd Nordin Adlan, Hamidi Abdul Aziz, **Mohamad Fared Murshed** **3**. Participant of Malaysian Technology Expo (MTE 2006), PWTC, Kuala Lumpur, Wins bronze medal for ‘Pilot Plant for Water Clarification Using Dissolved Air Flotation Process’. Mohd Nordin Adlan, Hamidi A. Aziz, **Mohamad Fared Murshed** |
| **(d)** | **Member in Professional / Academic Associations****(i) Member (per society)** 1. Graduate member, Board of Engineer Malaysia, 2006-present
2. Membership of IWA, International water association (01055995), 2013-2016
3. Membership of AWA, Australian Water association, 2013-2015

**(ii) Committee Member (Conference / Seminar / Workshop)** 1. Committee member (preparation) for organizing The 5th National Conference of Civil Engineering (AWAM 2009), Corus Hotel, Kuala Lumpur, 2009
2. Session Technical Chairman for 5th National Conference of Civil Engineering (AWAM 2009), Corus Hotel, Kuala Lumpur, 2009
3. Technical Program Commitee for Inaugural Malaysian Postgraduate Conference 2011 (MPC 2011), on 26 & 27 November 2011, Adelaide, South Australia
 |
| **5.** | **Consultancy** |
| (a) |  **Co-Consultant : National****1.** The Feasibility Study of Sewage Effluent Reuse for Jelutong Sewage Treatment Plant (JSTP) and Bayan Baru Sewage Treatment Plant (BBSTP), 22 March-21 July 2010), CS Engineering Consultancy, 11A, Tkt 1, Lrg Perda Utama 6, 14000 Bukit Mertajam, Pulau Pinang, RM85,000. [Co-Researcher] |
| **6.** | **Service to University** |
| (a) | **University Committee** 1. Committee member of Publication for Engineering Campus, USM (2008-2010)
2. Committee member of SAHABAT PPKT for Engineering Campus, USM (2008 – 2010)
 |
| (b) | **School Committee**1. Committee member of Jawatankuasa Istilah for School of Civil Engineering, (2009)
2. Member of Board Meeting of School Civil Engineering (2008-to date)
3. Committee member for Consultancy Day for School of Civil Engineering (Oct 2008)
4. Committee member of multimedia for Syarahan Perlantikan Prof. Hamidi & Prof Farhan PPK Awam (Jan 2009)
5. Committee for preparation of Annual Report for 20 Years PPK Awam (Oct 2008-Jun 2009)
6. Coordinator visit for School of Civil Engineering (2008-to date)
7. Committee member for Implementation of OBE (Outcome Based Education) in School Civil of Engineering (2009)
8. Committee Member for Outcome Based Education (OBE) for School of Civil Engineering
 |
| (c) | **University Representative (Sports and Non-Academic Activities)**1. USM Athlete for SUKUM 2009 for local university staff (Tennis)
 |
| **7.** | **Service to the community** |
| (a) | **International**1. Representative of the University of South Australia for Malaysian Postgraduate Students Association of South Australia (MyPSA) 2012/2013, Adelaide, South Australia
2. Assessor for poster presentation in International Engineering for sustainability conference (iNESCO) on 18-20 April 2014, USM Engineering Campus, Penang, Malaysia.
 |
| (b) | **National****1.** Public lecture and external examiner for Academic week for School of Civil Engineering, Politeknik Sultan Idris Shah, 17-18 November 2009, Sungai Air Tawar, Selangor. |