

CURRICULUM VITAE

WAN HANNA MELINI BT WAN MOHTAR

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Fields of specialisation: sediment transport, environmental hydraulics

Date and Place of Birth: 09 September 1980, Selangor

Nationality: Malaysian

Marital Status: Married



LANGUAGES PROFICIENCY

Bahasa Malaysia: Fluently spoken and good in writing

English: Fluently spoken and good in writing

EDUCATION

Level of Education

	Year
• Doctor of Philosophy, University of Nottingham, UK	2011
• MSc, MEng, Korea Institute of Science Technology – Asian Institute of Technology	2005
• BEng (Hons.) Civil & Structural, Universiti Kebangsaan Malaysia	2002
• Matriculation in Mathematics, Universiti Kebangsaan Malaysia	1999
• Higher Education Certificate, Sekolah Seri Puteri, Kuala Lumpur	1997

AFFILIATIONS

Designation, Organisation

	Year
• Associate Fellow, Institute of Climate Change, UKM	2015 - 2017
• Affiliate, Young Scientist Network – Academy of Science Malaysia	2015
• EIA Consultant, Department of Environment, Malaysia	2015
• Member (Member No: 44445), Board of Engineers	2004

CAREER HISTORY

Placement

	Year
• Senior Lecturer, Department of Civil & Structural Engineering, UKM	2012 - present
• Lecturer, Department of Civil & Structural Engineering, UKM	2006 - 2012
• Tutor, Department of Civil & Structural Engineering, UKM	2005 - 2006
• Environmental Engineer, Teknik Datasab Sdn Bhd	2005

TEACHING AND SUPERVISION

TEACHING LOAD

Sem/Session	Code/Title	Level	No. of students	SPPP
1/20192020	KKKH3113 Water Distribution and Sewerage Network	UG		
2/20192020	KKKA6002 Research Methodology and Innovation	PG		
2/20182019	KKKH4034 River Engineering	UG	11	5.00
2/20182019	KKKH3113 Water Distribution and Sewerage Network	UG	9	4.88
2/20182019	KKKA6002 Research Methodology and Innovation	PG	1	-
1/20182019	KKKH3113 Water Distribution and Sewerage Network	UG	89	4.90
1/20182019	KKKA6002 Research Methodology and Innovation	PG	23	5.00
2/20172018	KKKA6433 River Engineering	PG	4	4.75
2/20172018	KKKH4034 River Engineering	UG	24	4.84
2/20172018	KKKA6002 Research Methodology and Innovation	PG	23	4.78
1/20172018	LMCK1621 Ethics and Professional	UG	95	-
1/20172018	KKKW3224 Water Supply and Sewerage Systems	UG	5	4.50
1/20172018	KKKA6363 Sediment Transport	PG	3	5.00
1/20172018	KKKA6002 Research Methodology and Innovation	PG	24	-
1/20172018	KKKH3113 Water Distribution and Sewerage Network	UG	81	4.92
2/20162017	KKKW3224 Water Supply and Sewerage Systems	UG	41	4.93
2/20162017	KKKH4034 River Engineering	UG	19	4.94
2/20162017	KKKA6614 KKKA6433 River Engineering	PG	4	5.00
1/20162017	KKKA6002 Research Methodology	PG	39	4.55
1/20162017	KKKA6363 Sediment Transport KKKA6694	PG	2 4	5.00 5.00
2/20152016	KKKW3224 Water Supply and Sewerage Systems	UG	25	4.96
1/20152016	LMCK1621 Ethics and Professional	UG	79	-
1/20152016	KKKH3134 Open Channel Hydraulics	UG	11	4.96
1/20152016	KKH4304 River Engineering	UG	3	5.00
2/20142015	KKKW3224 Water Supply and Sewerage Systems	UG	25	4.87
1/20142015	LMCK1331 Effective Communication	UG	31	4.14
1/20142015	KKKA6694 Sediment Transport	PG	2	5.00
2/20132014	KKKH3134 Open Channel Hydraulics	UG	59	4.86
2/20132014	KKKW3224 Water Supply and Sewerage Systems	UG	29	4.90
2/20132014	HHHC9801 Creative and Innovative	UG	19	-
2/20132014	KKKF1111 Professionalism in Engineering and Built Environment	UG	59	4.02

1/20132014	HHHC9801 Creative and Innovative	UG	20	-
1/20132014	KKKF1111 Professionalism in Engineering and Built Environment	UG	73	4.33
2/20122013	KKKH3134 Open Channel Hydraulics	UG	46	4.94
2/20122013	KKKW3224 Water Supply and Sewerage Systems	UG	20	4.99
1/20122013	KKKH4074 Water Supply and Sewerage Systems	UG	55	-
1/20122013	KKKF1111 Professionalism in Engineering and Built Environment	UG	47	-
2/20112012	KKKH3134 Open Channel Hydraulics	UG	55	4.89
2/20112012	KKKH2184 Environmental Engineering Studies	UG	46	4.94
2/20112012	KKKS6144 Sewerage and Sanitary Systems	PG	2	5.00

*UG, PG represents Undergraduate and Postgraduate, respectively. SPPP denotes the marks given by the students at the end of a semester.

SUPERVISION
BY RESEARCH

Post-Doctoral

No	Name of Post-Doc	Year	Project title	Status
1	Dr Ibrahim Al-Ani	2015	Hybrid expert system-multi criteria analysis on erosion and sediment control in construction industry	Completed
2	Dr Zohreh Sheikh Khozani	2018-2019	Prediction of suspended sediment distribution in open channels using entropy concept	On-going
3	Dr Teh Sabariah Manan	2019-2020	Mapping of wastewater characteristics in Malaysian Sewerage Treatment Plants	On-going

PhD STUDENT	GRADUATED	ON-GOING
MAIN	2	5
CO-SUPERVISOR	1	3

No	Name of student	Year	Thesis title	Status
1	Haitham Abdulmohsin Afan (P77768)	1/20142015	Harmonize input selection on the prediction of suspended sediment	Completed
2	Mojtaba Porhemmat	2/20122013	Spatial and temporal scour profile in clay-sand sediment mixture	Completed
3	Safari Md Desa (P70068)	2/20122013	Pemodelan Fizikal Struktur Pemecah Ombak Tenggelam Wabcore	Completed
4	Juliana Abdul Jalil	1/20132014	The transport of sewer sediment in pipes	On-going
5	Shahirah Hayati Mohd Salleh (P75448)	2/20132014	River discharge effect on the estuarine sediment transport and bed morphology changes	On-going
6	Ibtesam Habib (P75170)	2/20132014	Self-local scour reduction using Epoxy Nanocomposite Rubber Alumina as energy damper	On-going

7	Mohammed Saleh Jaballa Alghadi (P77766)	1/20142015	Hydrological climate model on the efficiency of road drainage system	On-going
8	Choong Shi Mei (P64148)	2/20112012	Integrated forecasted discharge and ABC on the optimisation of hydropower dam	Writing stage
9	Nur Aini Mohd Arish @ Arshad (P58257)	2/20102011	Penentuan Formula Kestabilan Unit Lapis Lindung (Ns) Bagi Keadaan Gelombang Tak Melimpah Dengan Kehadiran Pemecah Ombak Gelombang	Writing stage
10	Tajul Ariffin Norizan (P85818)	2/20152016	Optimization Of The Design Of Plate Type Floor Splitter To Reduce Submerged Vortices In Pump Intake	On-going
11	Riffat Shaheed	1/2016	Resilience of storm water management in cities: Auckland, Kuala Lumpur and Dhaka (co-supervision with University of Auckland)	On-going

MSc STUDENT	GRADUATED	ON-GOING
MAIN	1	2
CO-SUPERVISOR	-	-

No	Name of student	Year	Thesis title	Status
1	Riffat Shaheed	2015	Development of a combined activated carbon-sand filter to treat rainwater for potable use	Completed
2	Mohamad Tajudin Mahmood		Spatial and temporal behaviour of heavy metal (Pb, Cd and Zn) release during sediment disturbance events	On-going
3	Zarimah Mohd Hanafiah		Potential of in-sewer self-treatment in a Malaysian sewerage network pipes	On-going
4	Lavaniya A/P Panirselvam		Biofilm formed on the sewer sediment	On-going
5	Silambarasi A/P Mooralitharan		Malaysian Ganoderma Lucidum in treating domestic wastewater	On-going

BY COURSEWORK

MEng STUDENT	GRADUATED	ON-GOING
MAIN	5	-

No	Name of student	Year	Thesis title (in Bahasa Malaysia)
1	Mahrhan Mahmud	2016	Penilaian kepada perincian rekabentuk struktur lapis lindung terhadap ombak esktrm kesan daripada perubahan profil pantai
2	Anizawati Ahmad	2016	Perubahan angkutan sedimen di muara sungai akibat peningkatan aras laut dan tindakbalas hidrodinamik
3	Mohammed Rashid Abed	2017	Prediction of water quality index using support vector machine
4	Wong Phei Yean	2017	Penggantian model terlatih di hilir sungai bagi ramalan enapan terampai di kawasan hulu cawang sungai
5	Muhammad Azizol Mohd Yusof	2018	The hydrodynamic characteristics of channel with patches vegetation

SPKI	GRADUATED	ON-GOING
MAIN	6	-

No	Name of student	Year	Thesis title (in Bahasa Malaysia)
1	Sasitharan a/l Parimoolam	2016	Analisis frekuensi kemalangan pemandu lori bancuh siap konkrit
2	Norlaili Md Zan	2016	Kajian analisis terhadap pengurusan sisa buangan berbahaya bagi industri peleburan besi yang telah diiktiraf ISO 14001
3	Nur Safina Ellia Abdul Azim	2016	Kecepatan rawatan udara panas untuk sisa buangan organik
4	A Gobinathan a/l Andy (DSPKI)	2016	Mengal pasti masalah dalam penentuan keselamatan mesin "gramload" di kilang pembuatan cakera keras
5	Muhammad Rushdi Ibrahim	2017	Kajian morfologi habuk di ruang tingkat bawah, bawah tanah dan sub-bawah tanah di bangunan di Kuala Lumpur
6	Hanim Zakaria	2017	Persepsi pekerja terhadap pemakaian peranti perlindungan pendengaran di kilang tekstil

BEng STUDENT	GRADUATED	ON-GOING
MAIN	19	3

No	Name of student	Year	Thesis title (in Bahasa Malaysia)
1	Polimina Dora Anak Mupin	2007	Pencirian sisa pepejal perbandaran di UKM
2	Wong Jian Kai	2007	Keberkesanan rawatan air kurasan dari tapak kambusan sanitari melalui proses pengudaraan dan penurasan
3	Muhamad Rafi Abdul Shukor	2013	Kajian menggunakan kaedah eksperimen mengenai kesan kerokan dari aliran bergelora yang disebabkan oleh tiang jeti jambatan
4	Muhamad Aminurlah Jamin	2013	Kesan aliran gelora disebabkan oleh struktur silinder model tiang jeti jambatan terhadap proses kerokan
5	Muhammad Nurhilmi Saharin	2014	Kerokan tempatan di sekitar tiang berbentuk silinder di bawah tindakan ombak seragam
6	Nurul Nadia Mohamad Yamin	2014	Kerokan di sekitar tiang silinder di bawah tindakan arus dan gelombang
7	Mohd Noor Shafique Abdul Rahman	2015	Variasi spatial saiz sedimen fluvium sungai-sungai di Selangor
8	Chuah Run En	2015	Pergerakan ambang sedimen untuk campuran tanah liat-pasir halus
9	Tey Jit Ming	2016	Pergerakan ambang sedimen untuk campuran sedimen pencong positif
10	Azman Ahmad	2016	Pergerakan ambang sedimen untuk campuran sedimen pencong negatif
11	Mahirah Zorkeflee	2017	Pengurangan kerokan tempatan menggunakan <i>Epoxidised Natural Rubber Alumina Nanoparticles</i> (ENRAN) berslot

12	Lee Ji Wang	2017	Ungkapan semula parameter Shields menggunakan turun-naik gelora.
13	Najwa Izzaty Muhammad Azha	2017	Pergerakan ambang sediment berjelekit oleh turun naik gelora
14	Nur Aina Bachi'	2018	Pembentukan Biofilm Ke Atas Sedimen Pembetung Dalam Suhu Yang Tinggi
15	Huzaifah Ahmad	2018	Pemodelan Sistem Pembetungan Pada Suhu Tinggi Malaysia
16	Chai Yuan Wei	2018	Pemodelan Kajian Perubahan Hidrodinamik Aliran Kesan Perubahan Iklim Menggunakan TELEMAC Di Sungai Pahang
17	Syarifah Amirah Huda Syed Mohd Fuat	2019	Permodelan terhadap kepekatan air sisa di dalam sistem pembetungan di Malaysia
18	Nur Diana Ramlee	2019	Pergerakan ambang sedimen jelekit biologi dengan kehadiran minyak dan gris
19	Nur Shamilla Faez Iskandar	2019	Biopemulihan rawatan air sisa domestic menggunakan Ganoderma Lucidum

RESEARCH CAPACITY

H-Index (Google Scholar): 10

Citations (Google Scholar): 458

RESEARCH GRANTS (AS PROJECT LEADER)

No	Research topic	Funder	Amount (RM)	Year
1	Environmental Monitoring Study of Priority Pollutants (KK-2019-010)	Enviroequip Rental and Services (M) Sdn Bhd	233,000	2019-2021
2	Sustainable domestic wastewater treatment by fungal pellets of medicinal mushroom Ganoderma Lucidum. (DIP-2018-016)	Dana Impak Perdana (UKM)	100,000	2019-2021
3	The Microbial Community Of Biofilm In Sewerage Pipes And Sewer Sediment For Self Nutrient Treatment. FRGS/1/2018/TK01/UKM/02/4	Ministry of Education	115,500.00	2018-2021
4	Prediction of suspended sediment distribution in open channels using entropy concept (MI-2018-011)	Modal Insan (UKM)	98,000	2018-2019
5	Systemisation of sewer network and sustainable treatment processes in a rapidly changing environment (GUP-2017-071)	Geran Universiti Penyelidikan (UKM)	70,000	2017-2019
6	Opportunities for managing environmental impacts from sewers under hot climate conditions (NRCP1617/6/189) (KK-2017-001)	Newton Research Collaboration Programme	65,270 (£11,960)	2017-2018
7	Assessment of sea level rise change: Observations, effects and adaptation measures (ZF-2015-021)	UKM-YSD Climate change chair	10,000	2015-2016
8	Spatial and temporal measurement of local scour around bridge piers in clay-sand mixed sediment beds (06-01-02-SF1077)	Sciencefund (MOSTI)	173,000	2013-2016
9	Erosion potential of fine-grained tropical sediments around bridge piers (ERGS/1/2013/TK03/UKM/02/7)	ERGS (MOE)	117,000	2013-2016
10	Remobilisation and the release of heavy metal (Pb, Cd, Zn) contaminants during a sediment disturbance events (GSP-2013-030, GSP-2014-002)	Geran Sanjungan Penyelidikan (UKM)	3,500	2014-2016
11	Low-tech, cost effective water filtration system for clean water stricken areas (GUP-2014-077)	Geran Top-Down (UKM)	70,000	2014-2016
12	Ctrl-C and Ctrl-V: A question of ethics for undergraduate students in their submitted exercises (PTS-2014-030)	Projek Tindakan Strategik (UKM)	20,000	2014-2015
13	Remobilisation and the release of heavy metal (Pb,Cd and Zn) during sediment disturbance events (KK-2013-004)	International (Korea Institute of Science and Technology)	KRW 20,000,00 (33,500)	2013-2015
14	The effect of turbulence induced by hydraulic structures on bed-load sediment transport (GGPM-2012-019)	Geran Galakan Penyelidik Muda (UKM)	50,000	2012-2014

RESEARCH GRANTS AS CO-RESEARCHER (SELECTED)

No	Research topic	Funder	Role	Amount (RM)	Year
1	iG-R&R Transformasi Rehat & Rawat Lestari (KK-2018-013)	Lembaga Lebuhraya Malaysia	Co-researcher	814,300	2017-2020
2	Flow behaviour and transverse mixing mechanism in a vegetated channel with varying bed forms (FRGS/1/2017/TK01/UKM/03/1)	MOHE (FRGS)	Co-researcher	80,200	2017-2020
3	PINTAR-UKM Sustainability and Green Technology through iG-HOME Module (iG-HOME) ZF-2017-003	Yayasan Hasanah	Co-researcher	240,000	2017-2019
4	Pengalaman Pembelajaran Komuniti Servis Bersepadu di dalam Program Kejuruteraan Awam	Dana KRA (UKM)	Co-researcher	20,000	2018-2019
5	The Optimized Plate Type Floor Splitter Design to Reduce Vorticed in Water Pump Intake (06-01-02-SF1326)	ScienceFund MOSTI	Co-researcher	149,000	2016-2019
6	Physical impacts of sea level rise due to the changes in coastal and climate system (TRGS/1/2015/UKM/02/5/1)	Transdisciplinary Research Grant Scheme, MOE	Co-researcher	207,800	2016-2019
7	Penghasilan manuskrip hasil kajian berkenaan hakisan pantai dan peningkatan paras air laut (ZF-2015-018)	Kursi Perubahan Iklim UKM-YSD	Co-researcher	10,000	2015-2017
8	On the use of computational modelling for trans disciplinary engineering applications development (DIP-2015-006)	Dana Impak Perdana (UKM)	Co-researcher	300,000	2015-2017
9	Coastal shoreline changes and the sea level rise at inundation area (ZF-2014-004)	UKM-YSD Climate Change Chair	Co-researcher	20,000	2014-2015
10	Integrated Development Surface Water Quality Monitoring in UKM Lake Catchment Area (AP-2014-008)	Arus Perdana (UKM)	Co-researcher	190,000	2014-2017
11	Transformasi Wanita PKW-2013-009	Pusat Kepimpinan Wanita, UKM	Co-Researcher	10,000	2014-2016

PUBLICATIONS

JOURNAL

1. **Wan Hanna Melini Wan Mohtar**, Lee Ji Wang, Najwa Izzaty Mohammad Azha, Nian-Sheng Cheng. 2019. Incipient sediment motion based on turbulent fluctuations. International Journal of Sediment Research. Accepted for publication. DOI: 10.1016/j.ijsrc.2019.10.008
2. Zarimah Mohd Hanafiah, **Wan Hanna Melini Wan Mohtar**, Hassimi Abu Hasan, Henriette Stokbro Jensen, Anita Klaus, Wan Abd Al Qadr Imad Wan-Mohtar. 2019. Performance of wild-Serbian Ganoderma lucidum mycelium in treating synthetic sewage loading using batch bioreactor. Scientific Reports. 9, 16109. DOI: 10.1038/s41598-019-52493-y

3. Norzaura Abd Rahman, Nur Shazwani Muhammad, Jazuri Abdullah, **Wan Hanna Melini Wan Mohtar**. 2019. Model performance indicator of aging pipes in a domestic water supply distribution network. *Water*, 11, 2378-2394. DOI: 10.3390/w11112378
4. Zohreh Sheikh Khozani, **Wan Hanna Melini Wan Mohtar**. 2019. Investigation of new Tsallis-based equation to predict shear stress distribution in circular and trapezoidal channels. *Entropy*, 21, 1046-1059. DOI: 10.3390/e21111046.
5. **Wan Hanna Melini Wan Mohtar**, Khairul Nizam Abdul Maulud, Nur Shazwani Muhammad, Suraya Sharil, Zaher Mundher Yaseen. 2019. Spatial and temporal risk-quotient based river assessment for water resources management. *Environmental Pollution*. 248: 133-144. DOI:10.1016/j.envpol.2019.02.011
6. Teh Sabariah Abd Manan, Salmia Beddu, Taimur Khan, **Wan Hanna Melini Wan Mohtar**, Ariyanti Sarwono, Hisyam Jusoh, Nur Liyana Mohd Kamal, Subarna Sivapalan, Abdulnoor A.J. Ghanim. 2019. Step by Step Procedures: Degradation of Polycyclic Aromatic Hydrocarbons in Potable Water using Photo-Fenton Oxidation Process. *MethodsX*. 6, 1701-1705. DOI/10.1016/j.mex.2019.07.011
7. Jun Yung Ho, Haitham Abdulmohsin Afan, Amr H. El-Shafie, Suhana Binti Koting, Nuruol Syuhadaa Mohd, Wan Zurina Binti Jaafar, Lai Sai Hin, Marlinda Abdul Malek, Ali Najah Ahmed, **Wan Hanna Melini Wan Mohtar**, Amin Elshorbagy, Ahmed El-Shafie. 2019. Towards Time and Cost-Effective Approach for Water Quality Index Class Prediction. *Journal of Hydrology*, 575, 148-165. DOI: 10.1016/j.jhydrol.2019.05.016
8. Zohreh Sheikh Khozani, Khabat Khosravi, Binh Thai Pham, Bjørn Kløve, **Wan Hanna Melini Wan Mohtar**, Zaher Munher Yaseen. 2019. Determination of compound channel apparent shear stress: Application of novel data mining models. *Journal of Hydroinformatics*, 21(5): 798-810. DOI: 10.2166/hydro.2019.037
9. Zohreh Sheikh Khozani, Hossein Hosseinjanzadeh, **Wan Hanna Melini Wan Mohtar**. 2019. Shear force estimation in rough boundaries using SVR method. *Applied Water Science*, 9:186-196. DOI: /10.1007/s13201-019-1056-z
10. Zaher Mundher Yaseen, **Wan Hanna Melini Wan Mohtar**, Ameen Mohammed Salih Ameen, Isa Ebtehaj, Siti Fatin Mohd Razali, Hossein Bonakdari, Nadhir Al-Ansari, Shamsuddin Shahid. 2019. Implementation of univariate paradigm for streamflow simulation using hybrid data-driven model: Case study in tropical region. *IEEE Access*. 7(1), 74471-74481. DOI: 10.1109/ACCESS.2019.2920916
11. Tajul Ariffin Norizan, Zambri Harun, Shahrir Abdullah, **Wan Hanna Melini Wan Mohtar**. 2019. Effects of Floor Splitter Height on the Effectiveness of Swirl Angle Reduction in Pump Intake. *Journal of Advanced Research in Fluid Mechanics and Thermal Sciences*, 57(1), 32-39.
12. Fazly Amri Mohd, Khairul Nizam Abdul Maulud, Othman A. Karim, Rawshan Ara Begum, Nor Aslinda Awang, Anizawati Ahmad, Wan Ahmad Hafiz Wan Mohamed Azhary, Mohd Khairul Amri Kamarudin, Mokhtar Jaafar, **Wan Hanna Melini Wan Mohtar**. 2019. Comprehensive coastal vulnerability assessment and adaptation for Cherating-Pekan coast, Pahang, Malaysia. *Ocean and Coastal Management*, 182, 104948. DOI: 10.1016/j.ocecoaman.2019.104948
13. Zaher Mundher Yaseen, Isa Ebtehaj, Sungwon Kim, Hadi Sanikhani, H. Asadi, Mazen Ismaeel Ghareb, Hossein Bonakdari, **Wan Hanna Melini Wan Mohtar**, Nadhir Al-Ansari, Shamsuddin Shahid. 2019. Novel Hybrid Data-Intelligence Model for Rainfall Pattern Forecasting and Uncertainty Analysis. *Water*, 11, 502-525; DOI:10.3390/w11030502
14. Norzaura Abd Rahman, Nur Shazwani Muhammad, **Wan Hanna Melini Wan Mohtar**. 2018. Evolution of research on water leakage control strategies: where are we now?. *Urban Water Journal*. 15(8): 812-826. DOI:10.1080/1573062X.2018.1547773
15. **Wan Hanna Melini Wan Mohtar**, Siti Aminah Bassa Nawang, Mohd Shafique Noor Rahman, Wan Zawiah Wan Zin, Khairul Nizam Abdul Maulud. 2018. The relation of neighbouring land use type and sedimentary characteristics of fluvial sediments in tropical rivers. *Sains Malaysiana*. 47(11): 2851-2861. DOI:10.17576/jsm-2018-4711-28
16. Shahirah Hayati Mohd Salleh, Anizawati Ahmad, **Wan Hanna Melini Wan Mohtar**, Chai Heng Lim, Khairul Nizam Abdul Maulud. 2018. Effect of Projected Sea Level Rise on the Hydrodynamic and Suspended Sediment Concentration Profile of Tropical Estuary. *Regional Studies of Marine Science*. 24, 225-236. DOI:10.1016/j.rsma.2018.08.004
17. **Wan Hanna Melini Wan Mohtar**, Haitham Afan, Ahmed El-Shafie, Charles Hin Joo Bong, Aminuddin Ab. Ghani. 2018. Influence of bed deposit in the prediction of incipient sediment motion in sewers using artificial neural networks, *Urban Water Journal*. 15(4), 296-302. DOI: 10.1080/1573062X.2018.1455880
18. Muhammad Azhar Akbar Batcha, Tajul Ariffin Norizan, Zulkhairi Zainol Abidin, **Wan Hanna Melini Wan Mohtar**, Zambri Harun. 2018. Vortex Measurement at Bell-Shaped Pump Inlet Using Particle Image Velocimetry. *Jurnal Kejuruteraan*, 30(2), 209-217 DOI:10.17576/jkukm-2018-30(2)-11
19. Najwa Izzaty Muhammad Azha, **Wan Hanna Melini Wan Mohtar**. 2018. Threshold Criteria of Sediment Motion for Biological Cohesive Sediment Mixture. *Jurnal Kejuruteraan Special Issue (5)*, DOI:10.17576/jkukm-2018-si1(1)-10
20. **Wan Hanna Melini Wan Mohtar**, A.J. Amirul Aiman, Nur Azura Abdullah, Nur Izzi Md Yusoff, Azrul Abdul Mutalib. 2018. Kesedaran Dan Kelakuan Pelajar Prasiswazah Terhadap Aktiviti Plagiat Dalam Penulisan Akademik. *ASEAN Journal of Teaching and Learning in Higher Education*. 10(1), 1-23.

21. Ibtesam Abudallah Habib, **Wan Hanna Melini Wan Mohtar**, Atef Elsaïad, Ahmed El-Shafie. 2018. Nose-Angle Bridge Piers as Alternative Countermeasures for Local Scour Reduction. *The Baltic Journal of Road and Bridge Engineering*, 13(2), 110–120, DOI: dx.doi.org 10.7250/bjrbe.2018-13.405.
22. Anita Maslahati Roudi, Shreeshivadasan Chelliapan, **Wan Hanna Melini Wan Mohtar**, and Hesam Kamyab. 2018. Prediction and Optimization of the Fenton Process for the Treatment of Landfill Leachate Using an Artificial Neural Network. *Water*, 10, 595- 607. DOI: dx.doi.org/10.3390/w10050595
23. Zaher Mundheer Yaseen, Minglei Fu, Chen Wang, **Wan Hanna Melini Wan Mohtar**, Ravinesh. C. Dao, Ahmed El-Shafie. 2018. Application of the Hybrid Artificial Neural Network Coupled with Rolling Mechanism and Grey Model Algorithms for Streamflow Forecasting Over Multiple Time Horizons. *Water Resources Management*, 32(5), 1883-1899. DOI:dx.doi.org/10.1007/s11269-018-1909-5
24. Mohd Tajuddin Mohamad, **Wan Hanna Melini Wan Mohtar**, Siti Fairus Mohd Yusoff. 2018. Spatial and temporal behaviour of Pb, Cd, and Zn release during short term low intensity resuspension events. *Jurnal Teknologi*, 80(1), pp 17-25.
25. Zaher Mundher Yaseen, Isa Ebtahaj, Hossein Bonakdari, Ravinesh C. Deo, Ali Danandeh Mehr, **Wan Hanna Melini Wan Mohtar**, Lamine Diop, Ahmed El-shafie, Vijay P. Singh. 2017. Novel approach for streamflow forecasting using a hybrid ANFIS-FFA model. *Journal of Hydrology*, 554, pp 263-276. DOI:dx.doi.org/10.1016/j.jhydrol.2017.09.007.
26. **Wan Hanna Melini Wan Mohtar**. 2017. Enhanced understanding on incipient sediment motion and sediment suspension through oscillating grid turbulence experiments. *J Zhejiang Univ-Sci A (Appl Phys & Eng)*, 18(11), pp 882-894. DOI:dx.doi.org/10.1631/jzus.A1600659
27. Riffat Shaheed, **Wan Hanna Melini Wan Mohtar**, Ahmed El-Shafie. 2017. Ensuring water security by utilizing roof-harvested rainwater and lake water treated with a low-cost integrated adsorption-filtration system. *Water Science and Engineering*, 10(2), pp 115-124. DOI:dx.doi.org 10.1016/j.wse.2017.05.002
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10. Khairul Nizam Abdul Maulud, **Wan Hanna Melini Wan Mohtar**, Zaini Sakawi, Roshana Mat Rafar, Siti Fatin Mohd Razali, Rawshan Ara Begum, Lubna Alam, Lam Kuok Choy, Mokhtar Jaafar, Tukimat Lihan, Goh Choo Ta & Lee Khai Ern. 2015. Analisis Spatial Terhadap Peningkatan Aras Laut di Perairan Batu Pahat. Kesan Hakisan Pantai dan kenaikan paras air laut di Batu Pahat (Impak kepada Komuniti Setempat). Institut Perubahan Iklim, Universiti Kebangsaan Malaysia. pp 7-18.
11. **Wan Hanna Melini Wan Mohtar**. 2014. Jodoh PhD. Srikandi PhD: cerita, cita-cita dan cabaran. Emma Mohamed & Sabariah Saleh (Eds). Penerbit Universiti Malaysia Perlis.

UNINDEXED PUBLICATION (RESEARCH BASED)

1. **Wan Hanna Melini Wan Mohtar**. 2017. Characteristics of Extra Polymer Substance (EPS) extracted from formed biofilm on sewer sediment. Current Research. Innovate Vol(10), pp 18.
2. Emma Mohamad, Sabariah Mohamed Salleh, Arina Anis Azlan, Chong Sheau Tsuey, Salina Nen, **Wan Hanna Melini Wan Mohtar**, Mazlina Mohd Said, Rozita Ibrahim. 2017. Tales of Adventure, Trials and Tribulations of Women in PhD. Fase: FSSK Research Highlights.
3. Shahirah Hayati Mohd Salleh, **Wan Hanna Melini Wan Mohtar**, Khairul Nizam Abdul Maulud, Nor Aslinda Awang. 2016. Implication of climate change to sediment transport in shallow estuary. Innovate, Vol(9), pp 76-77.
4. Ibtisam Habib, **Wan Hanna Melini Wan Mohtar**. 2016. Self-protected bridge piers using slotted ENRAN for local scour reduction. Innovate Vol 9, pp 63-64.
5. Safari Mat Desa, Othman A. Karim, **Wan Hanna Melini Wan Mohtar**. 2016. Physical hydrodynamic modelling to study wave interaction onto submerged breakwater. Innovate Vol 9, pp 21-22.
6. **Wan Hanna Melini Wan Mohtar**. 2016. Oscillating-grid turbulence: Investigating the effect of turbulence on hydro-physical phenomena. Malaysia Water Research Journal. Vol 7(1), pp 16-21.
7. Juliana Abdul Jalil, Ahmed El-Shafie, **Wan Hanna Melini Wan Mohtar**. 2015. Characterization of sediments in domestic sewerage systems. Innovate, Vol (8), pp 29-30.
8. **Wan Hanna Melini Wan Mohtar**. 2012. Characterisation of incipient sediment motion under the influence of oscillating-grid turbulence. Innovate Vol (5). pp 32 -33.

UNINDEXED PUBLICATION (POPULAR WRITING)

1. Shahrom Md Zain, Lailatulhariha Mamat, Roszilah Hamid, Noor Ezlin Ahmad Basri, Fatimah Suja, Siti Aminah Osman, **Wan Hanna Melini Wan Mohtar**, Muhammad Imran Muhammad Junaidi. 2018. STEEM: Gabungan kelestarian dan ilmu STEM melalui iG-HOME. Impak Sekolah @UKM. pp 7-12.
2. Huda Abdullah, **Wan Hanna Melini Wan Mohtar**. 2018. NSC@UKM: Gerbang Penerokaan Sains. Impak Sekolah @UKM. pp 13.
3. **Wan Hanna Melini Wan Mohtar**. 2018. Mengurus sisa sifar secara lestari. Komentor. Berita Harian. 6 December 2018.
4. **Wan Hanna Melini Wan Mohtar**. 2017. Kitar semula air kumbahan sebagai sumber air alternatif (*Recycling of wastewater as alternative for water resource*). Majalah Sains. Atas talian: www.majalahsains.com/kitar-semula-air-kumbahan-sebagai-sumber-air-alternatif/
5. Emma Mohamad, **Wan Hanna Melini Wan Mohtar** & Mazlina Mohd Said. 2017. Sedia bantu wanita yang melanjutkan pengajian (*Ready in helping woman to pursue studies*). Wawancara akhbar. Harian Metro (Metro TV).

EDITOR

Book

1. **Wan Hanna Melini Wan Mohtar**, Siti Aminah Bassa Nawang, Khairul Nizam Abdul Maulud. Editor. Laut Makan Darat. (in collaboration with NAHRIM)
Scope of work: Book concept, supervised book materials, copywriting.
ISBN: 978-983-2982-56-2
2. Khairul Anuar dan **Wan Hanna Melini Wan Mohtar**. Editor. Hydrodynamics characteristics in West Peninsular Malaysia (in collaboration with NAHRIM and Institute of Climate Change)
Scope of work: Book concept, supervised book materials, editing.
3. Shahrom Md Zain, Wan Hanna Melini Wan Mohtar, Nur Shazwani Muhammad. Editor. Universiti Pemacu Kelestarian Alam Sekitar.
Scope of work: supervised book materials, editing.

Journal

4. Guest Editor. Special Edition - 3rd International Technical Conference. 2013.
Scope of work: Oversight manuscript publication.
5. Guest Editor. 2017. Special Edition - Jurnal Kejuruteraan: Simposium Penyelidikan Tahun Akhir (SIPINTAR) 2016.
Scope of work: Oversight manuscript publication.

REFEREE

Journal

1. Process Safety and Environmental Protection. Elsevier.
2. Journal of Hydrodynamics Ser B (ISI/SCOPUS). Elsevier.
3. Canadian Journal of Physics (ISI/SCOPUS). NRC Research Press.
4. KSCE Journal of Civil Engineering (ISI/SCOPUS). Springer.
5. Egyptian Journal of Aquatic Research. Elsevier
6. Sedimentary Geology (ISI/SCOPUS). Elsevier.
7. Applied Computational Intelligence and Soft Computing. Hindawi.
8. Marine Georesources and Geotechnology. Taylors and Francis.
9. The Scientific World Journal (ISI/SCOPUS). Hindawi.
10. Journal of Applied Research in Higher Education (SCOPUS). Emerald.
11. Environmental Science. OMICS Publishing Group.
12. Jurnal Teknologi (ISI/SCOPUS). Penerbit UTM.
13. Malaysia Water Research Journal. NAHRIM.
14. Jurnal Kejuruteraan. Penerbit UKM.
15. Journal of Agricultural Science and Technology. Tarbiat Modarres University.
16. Journal of Engineering Science and Technology (JESTEC), Taylor's University.

17. International Journal of Energy Research. Wiley.
18. Indonesian Journal of Chemistry.

Proceeding

1. International Seminar on Chemical Engineering 2018.
2. 37th IAHR World Congress 2017.
3. International Technical Postgraduate Conference 2017.
4. International Conference on Sustainable Environment and Water Research 2016.
5. The International Conference on Engineering and Built Environment (ICEBE) 2013.
6. International Technical Conference 2015.
7. 2nd Joint Seminar on Statistics in Hydraulics (JoSSH) 2013.

Book

1. Zainab Yusof, Mohd Hidayat Jamil (Eds). Experimental studies on sediment erosion and accretion. Penerbit UTM.

SEMINAR/SYMPOSIUM

1. **Wan Hanna Melini Wan Mohtar**. 2015. Sejauh mana kesedaran dan kelakuan pelajar pra-siswazah terhadap plagiat di dalam kerja akademik? (*How far is the awareness and behaviour of the undergraduate students on plagiarism in their academic exercises?*). 3rd Symposium on Teaching and Learning 2015. Mei 2015. Universiti Kebangsaan Malaysia.

INVITED SPEAKER

International

1. **Wan Hanna Melini Wan Mohtar**. Plagiarism in university. Presented at the 5th International Conference on Tendencies in Higher Education "Third Generation Universities" 2015. May 2015. Fatih Universitesi, Istanbul, Turkey.

National

2. **Wan Hanna Melini Wan Mohtar**. 2019. River's health, for Seminar on Malaysia's Urban Water: Challenges and Way Forward, UiTM Sarawak, 4 November 2019.
3. **Wan Hanna Melini Wan Mohtar**. 2016. Climatic water supply disruption: wastewater alternatives. Seminar Sustainable Sewerage System under Current Climate Scenario. Institute of Climate Change, UKM and Department of Sewerage Services, Ministry of Energy, Green Technology and Water.
4. **Wan Hanna Melini Wan Mohtar**. Kursus Asas Penyelidikan dan Penilaian Harta (Basic Research Course). Institut Penilaian Harta (INSPEN). 2016.
5. M. Porhemmat and **W.H.M. Wan Mohtar**. 2016. Cost-effective, lab-scale automated spatial and temporal measurement system for local scour around bridge piers. National Seminar on Physical Modelling Application and Technology (PHYMAT 2016). National Hydraulic Research Institute of Malaysia (NAHRIM).
6. **W.H.M. Wan Mohtar**. 2014. Oscillating grid turbulence: investigating the effect of turbulence on hydro-physical phenomena. Seminar on Physical Modelling Application & Technology (PHYMAT). October 2014. National hydraulic Research Institute of Malaysia (NAHRIM).
7. **Wan Hanna Melini Wan Mohtar**. Batu Pahat: Perletakan Senario. Bengkel Kajian Peningkatan Aras Laut Akibat Perubahan Iklim di Persisiran Daerah Batu Pahat. 2014. Hotel Katerina, Batu Pahat, Johor.

Internal

8. **W.H.M. Wan Mohtar**. The interaction of water with sediment. Mei 2014. Seminar Pensyarah Muda FKAB.

AWARDS

SERVICE

1. Anugerah Perkhidmatan Cemerlang (*Excellent Service Awards*). 2016. Universiti Kebangsaan Malaysia.

RESEARCH

2. Newton-Ungku Omar Mobility Grant. 2017. £11,900.
3. Anugerah Penyelidikan Cemerlang. 2014. Fakulti Kejuruteraan & Alam Bina. Universiti Kebangsaan Malaysia.
4. Bronze Medal. 2016. Gejala plagiat: adakah persepsi pelajar dan pensyarah sejajar? Kongres Pengajaran dan Pembelajaran 2016.
5. Best Research Group. Anugerah Inovasi UKM. 2014. (Teknologi Sekitaran research group)
6. Korea Institute of Science and Technology- IRDA Alumni Research Project. 2013. KRW20,000,000.

EXAMINER

EXTERNAL

Doctor of Philosophy

No	Name of student	University	Year	Thesis title
1	John Irisowengiba Sodiki	Open University Malaysia	2017	Modelling of head loss components in water distribution systems

Master by research

1	Leong Geok Teng	Universiti Malaysia Sarawak	2019	Fuzzy FMEA on mechanical failure of hydraulic flushing gate system for managing sedimentation in open drain
2	Shilya Zulaikha Zamani	Universiti Malaysia Sarawak	2018	Strategic planning for integrated Rajang River basin development
3	Norman Shah Sabari	Universiti Teknologi Malaysia	2016	Flood forecasting and warning for urban catchment in tropical climate case study: Segamat River, Johor
4	Nor Ain Mat Lazin	Universiti Teknologi Malaysia	2013	Analysis of flow characteristics due to dam breach
5	Ayesha Ghulam Rasool	Universiti Teknologi Petronas	2013	Modelling of local scour in energy dissipation system

INTERNAL

DEGREE	FREQUENCY
PhD	5
MSc	2
MEng	2
FYP	17

CONSULTANCY PROJECTS

1. Environmental Impact Assessment of High Speed Railway Kuala Lumpur-Singapore. UKM Pakarunding. 2018.

Client: Minco Consult Sdn Bhd.

2. Integrated River Basin Management Sg Kelang. UKM Pakarunding. 2016.
Client: Lembaga Urus Air Selangor.
3. Coastal Disaster Management Plan: Kuala Langat – Sabak Bernam. UKM Pakarunding. 2015.
Client: Lembaga Urus Air Selangor.

ACADEMIC COMMITTEE

1. **Deputy Chair**, Smart and Sustainable Township Research Centre, 2019-2021.
2. **Coordinator**, Civil Engineering Programme (International-Kuwait), 2018-2020.
3. **Member**, International Grants Committee, Faculty. 2018-2021.
4. **Member**, Research Committee, SUTRA, 2017 – 2020.
5. **Member**, EAC Document, Department, 2006, 2012-2014, 2016-2017.
6. **Member**, Jawatankuasa Majlis Makan Malam FKAB, Faculty. 2016.
7. **Member**, Jawatankuasa UP3, Department. 2014-2017.
8. **Member**, Jawatankuasa Siswazah dan Penyelidikan JKAS, Department. 2017-2020
9. **Member**, Jawatankuasa Semakan Kurikulum JKAS, Department. 2015-2018.
10. **Head**, Water and Environmental Group, Department of Civil & Structural Engineering, 2014-2017.
11. **Member**, Jawatankuasa Karnival 30 Tahun FKAB, Faculty. 2014.
12. **Member**, Development of LaTeX Template Committee. Graduate Centre, 2013.
13. **Member**, Faculty Internationalisation Committee. 2013-2015.
14. **Member**, Quality Training Unit, Quality Assurance Faculty Committee. 2012-2015.

COMMUNITY SERVICES

IN SCIENTIFIC EXPERTISE CAPACITY

ADVISOR/TRAINER

1. **Trainer**. 2018. Stormwater Management and Preparation of Drainage Master Plan for CEDSCO Sdn Bhd. December 2018, Royale Chulan Bukit Bintang, Kuala Lumpur/
2. **Trainer**. 2018. Modul 4: Sistem Tuaian Air Hujan. Bengkel ToT: iG-Home Fasa 2, 2018. Fakulti Kejuruteraan dan Alam Bina.
3. **Academic Advisor**. 2018. Program Diploma Kejuruteraan Awam. Poliklinik Sultan Abdul Aziz Shah, Sabak Bernam.

AS CHAIRPERSON

1. **Chair**. 2018. Pertandingan Inovasi Cerun UKM.
2. **Chair**. 2016. Seminar Sustainable Sewer System under Current Climate Scenario. Jointly organised by Department of Civil & Structural Engineering, Institute of Climate Change, Kursi Yayasan Sime Darby. Invited speakers are from the University of Sheffield and Department of Sewerage Services.
3. **Chair**. 2015. MoU UKM-NAHRIM committee. Department of Civil & Structural Engineering, UKM.
4. **Chair**. 2015. Bengkel Penanaman Hidrologi. Under the project PHUM-2014-002.
5. **Chair**. 2014. Seminar Climate Change on Sewer System (in collaboration with the Institute of Climate Change). Invited speakers were from the University of Sheffield.

MEMBER OF A COMMITTEE

1. **Secretariat**, Majlis Penutup iG-Home Fasa 2, Ogos 2018.

2. **Secretariat**, Majlis Penutup iG-Home Fasa 1, Oktober 2017.
3. **Secretariat**, *Melawat komuniti yang terkesan dengan hakisan pantai dan kemaraan air laut di sekitar pantai batu pahat* (Visit to the local communities who are affected by the coastal erosion and sea level rise at the coastline of Batu Pahat), Jun 2015. Institute of Climate Change, UKM.

RESEARCH RELATED

1. **Exhibitor**. 2018. Science Outreach Workshop in conjunction with the Kuala Lumpur Engineering Science Fair (KLESF). November 2018.
2. **Research Judge**. 2018. Young Scientist Award, Oral Presentation for the International Conference on Beneficial Microbes-2018, Kuching Sarawak.
3. **Research Panel**. 2018. YUTP-FRG 2018.
4. **Evaluator**, Human Life Advancement Foundation (HLAF) Scholarship. 9th October 2017.
5. **Research Panel**. 2017. YUTP-FRG 2017.
6. **Research Panel**. 2014-2016. YUTP-FRG.
7. **Evaluator**. FKAB Brief paper and poster competition 2016.
8. **Evaluator**. Minggu Kecemerlangan Akademik Jabatan Kejuruteraan Awam. Politeknik Sultan Idris Shah. Mar 2016.
9. **Evaluator**. 17th Dissertation, Presentation & Exhibition (DPEX). Politeknik Sultan Idris Shah, Sabak Bernam. Oct 2016.
10. **Invited researcher**. PHUM-2014-002. Salinity problem in the paddy fields of Sg. Pinang, Kelantan.

IN NON-SCIENTIFIC FIELD

NATIONAL LEVEL

1. **Judge**. Junior Scientist@FSK. 21 November 2018. Faculty of Health Sciences, Universiti Kebangsaan Malaysia.
2. **Contributor**. 7th ASEAN +3 Junior Science Odyssey (APT JSO-7). 29th July – 4th August 2018. Akademi Sains Malaysia.
3. **Chief Judge**. National Science Challenge 2018: Negeri Sembilan state level.
4. **Chair**. National Science Challenge 2018: Putrajaya state level committee.
5. **Co-chairman**. National Science Challenge. 2017.
6. **Judge**. National Science Challenge Putrajaya State Level. 2017.
7. **Chairman**. National Science Challenge for Selangor State Level. 2016.
8. **Co-chairman**. National Science Challenge Grand Finale. 2016.
9. **Scientist** for module development. National Science Challenge 2016.
10. **Committee member**. Materials Lecture Competition (National Level), 2015.
11. **Chief Judge**. National Science Challenge for Selangor state level. 2015.
12. **Scientist** for module development. National Science Challenge. 2015.
13. **Speaker**, Srikandi Master/PhD. Invitation from Pusat Siswazah UPM, Dec 2015.
14. **Interview panel**. International Scholarship Programme, Ministry of Higher Education. 2013.

UNIVERSITY LEVEL

1. **Committee member**. Three Minutes Thesis Competition. 2019.
2. **Committee member**. Three Minutes Thesis Competition. 2018
3. **Head**, Protocol Committee. Three Minutes Thesis Competition. 2016.
4. **Committee Member**. Materials Lecture Competition (UKM Level). 2015.
5. **Speaker**. Majlis Teh Tarik Session, organised by Pusat Siswazah UKM. Ogos 2015.

TV

1. **Invited Speaker.** Nine 11, Sembang Apa. Bernama TV. 17 Jan 2018.

NETWORKING

INTERNATIONAL

1. Research collaboration. Article publication. 2019. With Assoc Prof Ali Danandeh Mehr. University of. Dr Mir Jafar Sadegh Safari, University of Yasar, Turkey.
2. Global Challenge Research Fund application. 2018. With Prof Paul Jeffery from the University of Cranfield as the leader. (Not awarded)
3. Submission of Newton-Ungku Omar Hydrometeorological Hazard Proposal. 2018. With Dr James Shucksmith from the University of Sheffield. (Not awarded)
4. Submission of Newton Prize Application. 2017. With Dr Henriette Jensen, Dr Esther Karunakaran and Prof Simon Tait. (Not awarded)
5. MoA with the University of Sheffield (Prof Simon Tait, Dr Henriette Jensen and Dr Esther Karunakaran), in conjunction with the Newton-Ungku Omar Mobility Grant. 2017.
6. Research collaboration in Newton Fund- Institution Link Grant proposal. Prof Ed Rhodes, School of Geography, University of Sheffield. 2017. (Not awarded)
7. Research collaboration in Newton Fund- Institution Link Grant proposal. Dr Alma Schellart and Dr Steve Mounce, Department of Civil Engineering, University of Sheffield. 2017. (Not awarded)
8. Research collaboration. Article publication. Dr Zaher Mundheer Yaseen. Ton Duc Thang University, Ho Chi Minh City, Vietnam.
9. Research collaboration. Preparation of article (under review). Assoc. Prof Dr Nian-Sheng Cheng. Department of Civil Engineering, Nanyang Technical University, Singapore/ University of Zhejiang, China.
10. Research collaboration. Preparation of article. Dr Antonius Indarto, Department of Chemical Engineering, Institut Teknologi Bandung, Indonesia.

NATIONAL

1. Research Fellow, Climate Change Institute, Universiti Kebangsaan Malaysia. 2015 – present.
2. MoA Research. Indah Water Konsortium Sdn Bhd. 2018 – 2020.
3. Research collaboration. National Hydraulic Research Institute of Malaysia.
4. Research collaboration. Department of Sewerage Management, Ministry of Energy, Green Technology and Water, Malaysia.
5. Research collaboration in grant proposal. Indah Water Konsortium Sdn Bhd.
6. Research collaboration. Publication of article. Universiti Malaya. (Dr Wan Abd Al Qadr Imad, Prof Ahmed El-Shafie)
7. Research collaboration. Publication of article. Universiti Sains Malaysia. (Prof Aminuddin Ab Ghani)
8. Research collaboration. Publication of article. Universiti Malaysia Sarawak. (Dr Charles Bong Hin Joo)
9. Research collaboration. Publication of article. Universiti Tenaga Nasional. (Prof Datin Lariyah Md Sidek)

CAPACITY BUILDING

ATTENDED SEMINAR/SHORT COURSES

1. Short course on river engineering-theory & modelling. 2018. 13-15 March 2018, Fakulti Kejuruteraan Awam, UiTM. Organised by UiTM.
2. Introductory course on Mike21 Software. 2013. Jabatan Pengairan dan Saliran. Organised by JPS.
3. Introductory course on Mike21 Software. 2014. DHI. Organised by DHI.