

## CURRICULAR VITAE

### Personal Data

1. Name : AZINOOR AZIDA BINTI ABU BAKAR
2. Date and Place of Birth : 26 December 1977. Johore, Malaysia.
3. Sex : Female
4. Nationality : Malaysian
5. Name of Current Employer : Universiti Teknologi Mara (UiTM)
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10. Title of Position Held : Senior Lecturer.

### Academic Qualifications

- |                               |   |
|-------------------------------|---|
| Degree                        | : B.E (Hons) (Civil Engineering)          |
| Field                         | : Civil Engineering                       |
| Year                          | : 2000                                    |
| Name and Place of Institution | : Universiti Sains Malaysia, Malaysia     |
|                               |   |
| Degree                        | : Master Of Science                       |
| Field                         | : Water Engineering                       |
| Year                          | : 2005                                    |
| Name and Place of Institution | : Universiti Putra Malaysia, Malaysia     |
|                               |   |
| Degree                        | : Dr. Eng.                                |
| Field                         | : Civil and Environmental Engineering     |
| Year                          | : On-going                                |
| Name and Place of Institution | : Nagaoka University of Technology, Japan |

### Professional Qualification

- Graduate Member Institution of Engineers, Malaysia (IEM)
- Member Board of Engineers, Malaysia (BEM)
- Member (Young Water Professional) International Water Association (IWA)
- Member Japan Society of Civil Engineers (JSCE)

### Working Experience

	Position	Year	Organization/Employer
1.	Senior lecturer	2009 - present	UiTM Shah Alam
1.	Lecturer	2002 - 2009	UiTM Shah Alam
2.	Design Engineer	2001 - 2002	ACP Industries Berhad
3.	Civil/Site Engineer	2000 - 2001	Satriadesa Corporation Sdn Bhd

**Project & Research**

1. Interception Loss Canopy Cover, c Formulation Theory. - Project leader.  
On-going. (Oct 2011 – Oct 2013).  
Fundamental Research Grant Scheme, Ministry of Higher Education, Malaysia.
2. pH Performance to Temperature Controlled for Heavy Metals Desorption Capacity from Contaminated Site. – Member.  
On-going. (Dec 2010 – Dec 2012).  
Fundamental Research Grant Scheme, Ministry of Higher Education, Malaysia.
3. Study of the Level of Contaminations at Mangrove Island: Case Study of Carey Island. – Member.  
Complete. (July 2007 – April 2010)  
Fundamental Research Grant Scheme, Ministry of Higher Education, Malaysia.
4. Application of Artificial Neural Network in Tidal Forecasting. – Member.  
Complete. (Mac 2006 – Feb 2007).  
Institut Penyelidikan, Pembangunan dan Pengkomersilan (IRDC), UiTM
5. Solid Waste Collection Routes Selection. – Member.  
Complete. (Jan 2006 – Jan 2007).  
Institut Penyelidikan, Pembangunan dan Pengkomersilan (IRDC), UiTM
6. Effectiveness of Domestic Wastewater Treatment with Natural Polymer, *Moringa oleifera*. – Project Leader.  
Complete. (Sept 2004 – Sept 2005)  
Institut Penyelidikan, Pembangunan dan Pengkomersilan (IRDC), UiTM
7. Children Environmental Awareness – Local Agenda 21  
Project Management & Capacity Development in Environment.  
Complete. (2006).  
Malaysian University Consortium for Environment and Development (MUCED) & Danish University Consortium for Environment and Development (DUCED)
8. Feasibility Study for Implementing LCM in the Automotive Industry in Malaysia.  
Case study: Proton Waja  
Complete. (2005).  
Life Cycle Management – Integrating Life Cycle Assessment and Environmental Management Systems  
Malaysian University Consortium for Environment and Development (MUCED) & Danish University Consortium for Environment and Development (DUCED)

**Paper & Publication**

1. Throughfall, Stemflow and Interception Loss of Artificial Tropical Forest. **Abu Bakar, A. A.**, Baki, A., Hamzah, N., Yusop, Z., Khalil, M. K. 2012 *IEEE Colloquium on Humanities, Science and Engineering Research (CHUSER)*. 3-4 Dec. 2012. 92-96.
2. Study of Soil Contamination at Mangrove Island: Case Study of Carey Island. **Bakar, A.A.A.**; Ahmad, N.; Wahid, M.A.; Kamaruddin, F.; Atan, I.; Yahya, Z.; Tahir, W.; Ahmad, J.; Baki, A. 2012 *IEEE 8th International Colloquium on Signal Processing and its Applications (CSPA)*. 2012, 144 – 148 (10.1109/CSPA.2012.6194707)
3. Runoff Prediction using Rainfall Data and Catchment Characteristics. Man, N. F., Jaafar, J., **Abu Bakar, A. A.**, Ab. Wahid, M., Mohd Zaki, Z., Atan, I. 30th *Conference of ASEAN Federation of Engineering Organisation (CAFEO30)*. 16-19 Dec. 2012.
4. Study of Bioindicator at Mangrove Island: Case Study of Carey Island. Kamarudin, Faizah; Wahid, Marfiah Ab.; **Bakar, Azinoor Azida Abu**; Ahmad, Nurhafidzah; Atan, Ismail; Yahya, Zahrullaili; Tahir, Wardah; Ahmad, Juhaizad; Baki, Aminuddin. 2012 *IEEE Symposium on Business, Engineering and Industrial Applications (ISBEIA)*. 23-26 Sept. 2012. 392 - 397

5. Application of Annual Interception Model with Temporal Resolutions Effects. **Bakar, Azinoor Azida Abu**; Baki, Aminuddin; Khalil, Muhammad Khairudin; Atan, Ismail; Ali, Mohd. Fozi. 2012 *IEEE Symposium on Business, Engineering and Industrial Applications (ISBEIA)*. 23-26 Sept. 2012. 867 - 871
6. Annual interception loss estimation with a simple equation. **Bakar, A.A.A.**; Baki, A.; Atan, I.; Ali, F.; Yusop, Z.; Khalil, M.K. 2012 *IEEE Symposium on Humanities, Science and Engineering Research (SHUSER)*. 24-27 June 2012. 1477 - 1482
7. Evaluation of a Simple Annual Canopy Evaporation Equation. **A. A. A. Bakar** & M. Lu. *Annual Journal of Hydraulic Engineering*, JSCE, Vol.56, 2012, February. 2012.
8. Effects of Temporal Resolution on River Flow Forecasting with Simple Interception Model within a Distributed Hydrological Model. **A. A. A. Bakar** & M. Lu. *International Journal of Research and Reviews in Applied Sciences*. July 2011.
9. The Effects of Temporal Resolution on Annual Interception Estimation. **A. A. A. Bakar** & M. Lu. *Advanced in Geoscience (AdGeo)*. World Scientific Publishing Company.2010.
10. Study of Water Quality at Mangrove Island. Study case : Carey Island. **Azinoor Azida Abu Bakar**, Aminuddin Mohd Baki, Juhaizad Ahmad, Zahrullaili Yahya, Wardah Tahir, Faizah Kamarudin, Marfiah Ab. Wahid, Ismail Atan, Norhafidzah Ahmad. *International Conference on Science & Social Research 2010*. IEEE, IEEE Malaysia, IEEE Malaysia PEL/IE/IA Joint Chapter 2010.
11. Study of the Level of Contaminations at Mangrove Island: Case Study of Carey Island. Aminuddin Mohd Baki, **Azinoor Azida Abu Bakar**, Marfiah Ab. Wahid, Ismail Atan, Zahrullaili Yahya, Faizah Kamarudin, Wardah Tahir, Juhaizad Ahmad. *FRGS Final Report*. 2010.
12. Self-purification Capacity of River Receiving Shah Alam STP Effluent. Aminuddin Bin Mohd Baki, **Azinoor Azida Abu Bakar**, Jurina Jaafar, Ramlah Mohd Tajuddin, Ismail Atan, Mohamed Yusof. *Water Malaysia*. The Malaysian Water Association Quarterly, Asian Water Magazines/ Syed Hussein Publications Sdn. Bhd. ISBN1675-2392. 2009.
13. Interception Loss of Palm Oil Tree in Malaysia. **A. A. A. Bakar**, M. Lu & Z. Yusop. 22<sup>nd</sup> Annual Conference (2009). *Japan Society of Hydrology and Water Resources*. 2009.
14. Study on Levels of Contaminations at Mangrove Island: Case Study Pulau Carey. Aminuddin Mohd Baki, Zahrullaili Yahya, **Azinoor Azida Abu Bakar**, Marfiah Ab. Wahid, Faizah Kamarudin, Ismail Atan, Wardah Tahir, Juhaizad Ahmad, Siti Aishah Kamaludin & Mohd Zairuddin Ismail. *Conference on Scientific & Social Research (CSSR'08'09)*. 2009.
15. Reuse of Water Treatment Residue/Sludge as A Pottery Product. Aminuddin Mohd Baki, **Azinoor Azida Abu Bakar**, Jurina Jaafar, Ramlah Mohd Tajuddin, Faizah Kamarudin, Marfiah Ab. Wahid, Tajul Ariffin Adam, Syed Farid Syed Zin, Nurul Izzah Hassan & Wan Amizah Wan Jusoh. *Water Malaysia: The Malaysian Water Association Quarterly*. ISSN: 1675-2392. 2008.
16. Preliminary Study on the Use of Natural Polymers (*Moringa Oleifera*) to Enhance Sedimentation Process. **Azinoor Azida Abu Bakar**, Jurina Jaafar, Ramlah Mohd Tajuddin, Ismail Atan, Aminuddin Mohd Baki. *Water Malaysia: The Malaysian Water Association Bi-Monthly*. ISBN 1675-2392. 2008.
17. Water Quality of Rivers in Carey Island, Malaysia. **Azinoor Azida Abu Bakar**, Marfiah Ab. Wahid, Faizah Kamarudin, Ismail Atan, Zahrullaili Yahya, Wardah Tahir, Aminuddin Mohd Baki, Juhaizad Ahmad, Mohd Zairuddin Ismail & Siti Aishah Kamaluddin. *Proceedings of the International Conference and Expo on Environmental Management and Technologies (ICEEMAT'08)*. Universiti Teknologi Malaysia (UTM). 2008.
18. Study on River Water Quality at Mangrove Island: Case Study of Carey Island. Ismail Atan, Zahrullaili Yahya, Marfiah Ab. Wahid, Faizah Kamarudin, Wardah Tahir, Juhaizad Ahmad, Aminuddin Bin Mohd Baki, **Azinoor Azida Abu Bakar**, Siti Aishah Kamaluddin. *International Conference on Civil Engineering 2008 (ICCE08)*. Universiti Malaysia Pahang, in collaboration with: IEM (Eastern Branch), JKR, JPS, KLIUC. 2008.
19. Application of Artificial Neural Network in Tidal Forecasting. *Final Report*. Lee, W. K., **Abu Bakar. A. A.** Institut Penyelidikan, Pembangunan dan Pengkomesilan, Universiti Teknologi MARA (IRDC), IRDC UiTM. 2007.

20. A Preliminary Study on Water Quality Using Bioindicator. Aminuddin Mohd Baki, **Azinoor Azida Abu Bakar**, Zahrullaili Yahya, Faizah Kamarudin, Marfiah Ab. Wahid, Ismail Atan. *Proceedings of ISWS2007-International Seminar on Wetland and Sustainability*. International Seminar on Wetland and Sustainability, International Islamic University, Universiti Kebangsaan Malaysia, Universiti Sains Malaysia, Universiti Teknologi MARA, Universiti Putra Malaysia and Kyoto University. ISBN 978-983-3142064. 2007.
21. A Non-Linear Cost Model Application for Solid Waste Collection Routes Selection. Aminuddin Mohd Baki, **Azinoor Azida Abu Bakar**, Zuhaida Mohd Zaki, Faizah Kamarudin, Marfiah Ab. Wahid. *Proceedings of 25th Conference of ASEAN Federation of Engineering Organizations (CAFEO25)*. ASEAN Federation of Engineering Organisations (AFEO), the Philippines Technological Council (PTC), the Department of Environment and Natural Resources Philippines and the Department of Energy Philippines. 2007.
22. Solid Waste Collection Routes Selection. Final Report. Ab. Wahid, M., **Abu Bakar, A. A.** Institut Penyelidikan, Pembangunan dan Pengkormesilan, Universiti Teknologi MARA (IRDC), IRDC UiTM. 2007.
23. Children Environmental Awareness – Local Agenda 21. **Azinoor Azida Abu Bakar**, Muhammad Khairudin Khalil. August 2006. *Buletin Jurutera*. ISSN: 0126-9909. 2006.
24. Trend of Solid Waste Collection in Urban River. Study Case – Batu River, Kuala Lumpur. M, Ab-Wahid, **A. A. Abu-Bakar**, S. Sabarudin. August 2006. *International Conference on Local Government 2006*. UiTM Cwgn Sabah, Sabah Economic Action Council, Ministry of Local Government and Housing Sabah, The Sabah State Public Sector Training Ins., Ministry of Housing and Local Government Malaysia. ISBN: 983-3643-66-3. 2006.
25. Domestic Wastewater Treatment with a Natural Coagulant, *Moringa oleifera*. **A. A. Abu-Bakar**, J. Jaafar, M. Ab-Wahid, M. K. Khalil, August 2006. *International Conference on Local Government 2006*. UiTM Cwgn Sabah, Sabah Economic Action Council, Ministry of Local Government and Housing Sabah, The Sabah State Public Sector Training Ins., Ministry of Housing and Local Government Malaysia. ISBN: 983-3643-66-3. 2006.
26. Identification the Beneficial Usage of Water Treatment Sludge. Marfiah Ab. Wahid, **Azinoor Azida Abu Bakar**, Aminuddin Mohd Baki, Faizah Kamaruddin, Nurul Izza Hassan, Wan Amizah Wan Jusoh, Tajul Ariffin Adam. August 2006. *International Conference on Local Government 2006*. UiTM Cwgn Sabah, Sabah Economic Action Council, Ministry of Local Government and Housing Sabah, The Sabah State Public Sector Training Ins., Ministry of Housing and Local Government Malaysia. ISBN: 983-3643-66-3. 2006.
27. Effectiveness of Natural Polymer Compare To Synthetic Polymer in Wastewater Treatment. **Abu-Bakar, A. A.**, Khalil, M. K. June 2006. *Young Researchers Conference on Applied Sciences*. 2006.
28. Effectiveness of *Moringa Oleifera* as Coagulant Aid in Turbidity Removal for Municipal Wastewater Treatment. **Abu-Bakar, A. A.**, Khalil, M. K. June 2006. *International Seminar on Civil and Infrastructure Engineering 2006*.
29. Assessment on the Use of Natural Polymer in Turbidity & Colour Removal of Landfill Leachate. **Abu-Bakar, A. A.**, Mohd-Zaki, Z., Abd-Majid, M. F., Md-Taha, N. A. June 2006. *International Seminar on Civil and Infrastructure Engineering 2006*. 2006.
30. Effectiveness of *Moringa oleifera* as Coagulant in Municipal Wastewater Treatment. **Abu-Bakar, A. A.**, Jaafar, J. July 2006. Accepted by *Conference on Scientific & Social Research 2006*.
31. Children Environmental Awareness – Local Agenda 21. Project Management & Capacity Development in Environment. Malaysian University Consortium for Environment and Development (MUCED) & Danish University Consortium for Environment and Development (DUCED). 2006.
32. Preliminary Study on the Effects of Mixing and Time on Turbidity Removal of Wastewater Treatment. **Abu-Bakar, A. A.**, Jaafar, J. 20<sup>th</sup> *Symposium of Malaysian Chemical Engineers*. Dec 2006.

33. Effectiveness of Domestic Wastewater Treatment with a Natural Polymer, *Moringa Oleifera*. **Azinoor Azida Abu Bakar**, Jurina Jaafar, *Final Report*. Institut Penyelidikan, Pembangunan dan Pengkormesilan, Universiti Teknologi MARA (IRDC), IRDC UiTM. 2005.
34. Feasibility Study for Implementing LCM in the Automotive Industry in Malaysia. Case study: Proton Waja. Life Cycle Management – Integrating Life Cycle Assessment and Environmental Management Systems. *Final Report*. Malaysian University Consortium for Environment and Development (MUCED) & Danish University Consortium for Environment and Development (DUCED). 2005.
35. Sewage Treatment in Malaysia. 2004. **Abu-Bakar, A. A.**, Khalil, M. K. *Prosiding Sustainable Science and Management*. KUSTEM 3<sup>rd</sup> Annual Seminar. Kolej Universiti Sains dan Teknologi Malaysia (KUSTEM) . 439-444. 2004.
36. Banjir Kilat di Malaysia: Punca, Langkah Pencegahan dan Kekangan. 2002. **Abu-Bakar, A. A.** *Prosiding Seminar Kebangsaan: Sains, Teknologi dan Sains Sosial*. Proceedings of Seminar Kebangsaan Sains, Teknologi & Sains Sosial., UiTM Pahang, Kerajaan Negeri Pahang Darul Makmur. 349-353. 2002.
37. Landslide Forecasting Using IDRISI GIS – Study Case: Penang, Malaysia. 2000. **Abu-Bakar, A.A.**, M.N. Sanusi. *Prosiding Persidangan Kebangsaan Kejuruteraan Awam 99 (AWAM 99)*, USM Perak, 22 - 24 Jan 2000.

#### **Participation in continuing education, community service and consultancy.**

1. IEEE Business Engineering and Industrial Applications Colloquium 2012 (BEIAC 2012).  
Appoint Reviewer.
2. IEEE Symposium on Humanities Science and Engineering (SHUSER 2012).  
Appoint Reviewer.
3. IEEE Symposium on Business, Engineering and Industrial Applications (ISBEIA2011).  
Appoint Reviewer.
4. IEEE Colloquium on Humanities Science and Engineering Research (CHUSER 2011).  
Appoint Reviewer.
5. International Conference on Science and Social Research 2010 (CSSR 2010).  
Appoint Reviewer.
6. Bengkel Perancangan Pelan Strategik IWRM.  
Appoint. (3-4 August 2006).  
Kem. Sumber Asli & Alam Sekitar, United Nation Environment Programme, National Hydraulic Research Institute of Malaysia.
7. Forum on International Standard of Service Activities Relating to Drinking Water Supply System & Wastewater Systems.  
Appoint. (9 June 2005)  
Standards and Industrial Research Institute of Malaysia (SIRIM).

#### **Book & Course Note**

1. Water Management for Sustainable Management – Volume 1  
First Editor  
University Publication Centre (UPENA), Universiti Teknologi MARA, 2006.
2. Water Resources Laboratory Manual – Volume 1  
Faculty of Civil Engineering, UiTM Shah Alam