

CURCULUM VITAE



A. PERSONAL DETAILS

1. Name : Norbaya Binti Haji Sidek
2. Date of Birth : 16th March Place: Jerantut, Pahang
3. Sex : Female
4. Office Address : Faculty of Civil Engineering, University Teknologi Mara, 40450 Shah Alam, Selangor, Malaysia
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CURRENT PROFESSIONAL MEMBERSHIPS

No	QUALIFICATIONS OBTAINED	YEAR	INSTITUTION
1	Members of Malaysian Engineer Board Reg no: 56222R	SINCE AUGUST 2008	BEM
2	Members of Technologies Specialist PT18050217	SINCE 2018	MBOT (Panel of Technologies Specialist since 2018)
3	Associate Members International Association of Innovation Professionals	- SINCE 2020	IAOIP

B. **PUBLICATION**

PUBLICATION FOR 2011

- 1) Norazlan K., **Norbaya S.**, Mohd Fadzil A. (2011). *Utilization Of Bottom Ash (BA) Use In Road Base*. International Building And Infrastructure Technology Conference 2011.
- 2) Ailin Nur J.O., Hafez M.A., **Norbaya S.** (2011) *Study Of Bearing Capacity Of Lime-Cement Columns With Pulverized Fuel Ash For Soil Stabilization Using Laboratory Model*. Electronic Journal Geotechnical Engineering Vol 16(2011), Bund. H- Page 1595 – 1605 (Indexed by SCOPUS)
- 3) Doris Asmani M.Y., Hafez M.A., **Norbaya S.** *Static Laboratory Compaction Method* Electronic Journal Geotechnical Engineering Vol 16(2011), Bund. M-Page 1583-1593(Indexed by SCOPUS)
- 4) **Norbaya Sidek.**, Norazlan Khalid, Asraf Abdul Rasib. *Effect Of Fine Percentage And Moisture Content To Shear Strength Of Limestone Residual Soil*, RSET 2011 Kuching, Sarawak
- 5) Norazlan K., **Norbaya S.**, Mohd. Fadzil A., Shaharin H. *Strength Of Peat Soil Stabilized With Waste Paper Sludge Ash (WPSA)* RSET 2011 Kuching, Sarawak

PUBLICATIONS FOR 2012

1. Norazlan Khalid, **Norbaya Sidek**, Mazidah Mukri, Faizah Kamarudin and Mohd Fadzil Arshad (2012). *The Potential Of coal Bottom Ash As Additives In Road Sub-Base Aggregate*. The 8th Asia Pasific Structural Engineering and Construction Conference (APSEC 2012) and 1st International Conference on Civil Engineering Research (ICCER 2012), 2-4 October 2012, Surabaya Indonesia.
- 2) Norazlan Khalid, **Norbaya Sidek**, Mazidah Mukri, Faizah Kamarudin and Mohd Fadzil Arshad, and Shaharin Hamid (2012). *The laboratory Studies On California Bearing Ratio (CBR) Value For Clay Soil Stabilized With Waste Paper Sludge Ash (WPSA)*. The 11th International Conference On Concrete Engineering and Technologies (CONCET 2012), pp421-427, 12-13 June 2012, Putrajaya, Malaysia. (ISBN 978-967-0380-12-4).

PUBLICATIONS FOR 2013

- 1) Norazlan K., **Norbaya S.**, Mohd Fadzil A. (2013) *"The California Bearing Ratio (CBR) Value Of Road Sub – Base Aggregate Mixed With Bottom Ash"*, Malaysian Journal of Civil Engineering 25 Special Issue (1):112-121(2013)

- 2) Norazlan Khalid, Mazidah Mukri, Faizah Kamarudin, **Norbaya Sidek**, Mohd Fadzil Arshad (2013) "*Experimental Studies on Fibrous Peat Stabilized Using Waste Paper Sludge Ash (WPSA)*", Electronic Journal Geotechnical Engineering, EJGE VOL 13(2013), Bund. B pp1613-1621
- 3) Shakri S., Hafez M.A, **Norbaya S.**"*A Laboratory Study on PFA-Cement Mixture to Increase Unconfined Compression Strength of Sand Column*" Electronic Journal Geotechnical Engineering, EJGE VOL 15(2013), Bund. I pp178

PUBLICATIONS FOR 2014

- 1) Shakri S., Hafez M.A, **Norbaya S** "*PFA Mixture for Sand Column Parameter Stabilization*" Springer Journal 449 – 460 2014; DOI: 10.1007/978-981-4585-02-6
- 2) **Norbaya Sidek.**, Kamaruzzaman Mohamed, Ismacahyadi Bagus Mohamed Jais, Mohd Faiz Mazlee"*Environmental And Sustainable Technology Using Polyurethane Foam*"Annual Conference on Civil Engineering and Engineering (March 14-16 2014 Phuket, Thailand)
- 3) **Sidek N.**, Mohamed K.,M.Jais I.B., Abu Bakar I.A. "*Strength Characteristics of Polyurethane (PU) With Modified Sand.* International Intergrated Engineering Summit(Dec 1-4 2014)
- 4) **Sidek N**, Abdul Talib, S., Mohd. Zain, N., Rashid, N.R.N.A., Abu Bakar, I.A. "*An Investigation On The Effect Of Calcite Bacteria Seeding On Shear Strength Of Peat Soil Via An Unconfined Compression Test.*"

PUBLICATIONS FOR 2015

- 1) **Sidek N.**, Mohamed K.,M.Jais I.B., Abu Bakar I.A. "*Strength Characteristics of Polyurethane (PU) With Modified Sand.* Journal Applied Mechanic & Material VOL 773-774 pp1508-1512(SCOPUS INDEX)
- 2) **Sidek N**, Abdul Talib, S., Mohd. Zain, N., Rashid, N.R.N.A., Abu Bakar, I.A. "*An Investigation On The Effect Of Calcite Bacteria Seeding On Shear Strength Of Peat Soil Via An Unconfined Compression Test.*" Journal Applied Mechanic & Material VOL 773-774 pp1513-1517(SCOPUS INDEX)
- 3) **Sidek N.**, Mohamed K.,M.Jais I.B., Abu Bakar I.A. "*Simulation of Plate Bearing Test For Friction Root Ground Support System in Sand Using Palxis Finite Element*" International Journal of Technical Research and Application e-ISSN:2320-8163, pp 93 - 97
- 4) Aftas Azman, Mohd Hezri, **Norbaya Sidek**, Ilyani Akmar Abu Bakar"*Water Quality Parameter : A Review on Dissolve Oxygen (DO) Control Method*" International Journal of Technical Research and Application e-ISSN:2320-8163, pp 98 - 102
- 5) **Sidek N.**, Mohamed K.,M.Jais I.B., Abu Bakar I.A. "*Polyurethane Foams In Soil Stabilization – A Compressibility Effect*" Proceeding "3rd International Civil and Infrastructure Engineering Conference"

PUBLICATIONS FOR 2016

- 1) **Sidek N.**, Mohamed K., M. Jais I.B., Abu Bakar I.A. " *Polyurethane Foams In Soil Stabilization – A Compressibility Effect*" Springer Science + Business Media Singapore 2016
- 2) Ahmad Aftas Azman, Mohd Hezri Fazalul Rahiman, Mohd Nasir Taib, Ilyani Akmar Abu Bakar, **Norbaya Sidek**, Mohd Fozi Ali. " *Characterization of Aluminium Sulphate for Control Applications*" 2016 IEEE 7th Control and System Graduate Research Colloquium (ICSGR 2016)
- 3) Ahmad Aftas Azman, Mohd Hezri Fazalul Rahiman, Mohd Nasir Taib, **Norbaya Sidek**, Ilyani Akmar Abu Bakar, Mohd Fozi Ali. " *A Low Cost Nephelometric Turbidity Sensor for Continual Domestic Water Quality Monitoring System* " International Conference on Automatic Control and Intelligent System (I2CACIS2016)

PUBLICATIONS FOR 2017

- 1) **Norbaya Sidek**, Ilyani Akmar Abu Bakar, Ahmad Aftas Azman, Abdul Samad Abdul Rahman and Wizario Anak Austin " *Strength Characteristic of Polyurethane With Variation of Polyol to Isocyanate Mix Ratio : A Numerical Analysis*" Paper published at International Conference on Automatic Control and Intelligent System (I2CACIS2017)
- 2) Abdul Samad, Mohd Jamal, Ismacahyadi, **Norbaya** and Juhaizad "Bamboo leaf ash as the stabilizer for soft soil treatment "4th International Conference on Civil and Environmental Engineering for Sustainability (ICONCEES2017)
- 3) Abdul Samad, Mohd Jamal, **Norbaya** and Juhaizad "Prediction of soil stress-strain response incorporates mobilised shear strength envelope of granitic residual soil "The 2nd International Conference on Applied Science and Technology 2017 (ICAST'17)

PUBLICATIONS FOR 2018

- 1) Abdul Samad, Mohd Jamal, Ismacahyadi, **Norbaya** and Juhaizad "Shear Strength Behavior for Unsoaked and Soaked Multistage Triaxial Drained Test" Advanced in Civil Engineering & Technology Journal
- 2) Abdul Samad, **Norbaya**, Juhaizad, Hazwani and Mohd Ikmal. "Shear Strength of granitic residual soil in saturated and unsaturated conditions." International Conference on Advances in Civil Engineering and Science Technology (ICACEST)
- 3) Norazlan, Mazidah, Mohd Fadhil, **Norbaya** and Faezah "Effect on Salak Tinggi Residual Soil Mixed Bentonite As Compacted Clay Liner" The 10th Asia Pacific Structural Engineering and Construction Conference (APSEC 2018)

PUBLICATIONS FOR 2019

- 1) Bamboo Leaf Ash as the Stabilizer for Soft Soil Treatment (IOP 2018)

PUBLICATIONS FOR 2020

- 1) Research Book : Soil Improvement Using Polyurethane (PU) – Norbaya Sidek, M.Hafez, Rahayu Che Omar . AMAZON Publisher
- 2) Comparative Study in Method of Compaction by Consolidated Drained and Direct Shear Test . Journal Of Advanced Research In Fluid Mechanics And Thermal Sciences
- 3) Behaviour of Shear Strength Envelope Mixing with Usable Caooking Oil Using Consolidated Drained Tariaxial Test IOP CONFERENCE SERIES

2. RESEARCH GRANTS

- 1) NANOPARTICLELIZATION CHARACTERIISTIC OF STABILIZED SOFT SOIL RAGS - (2012-2014)
- 2) REDUCE CEMENT DEEP STABILISED QUICK CLAY RIF (2012-2014)
- 3) CLAY SOIL STABILIZATION USING WASTE PAPER SLUDGE ASH (WPSA) RIF (2012-2014)
- 4) BIOCEMENTATION MICROBIAL INDUCED CALCIUM CARBONATE PRECIPITATION THEORY FRGS (2012-2014)
- 5) ALTERNATIVE RAPID GROUND TREATMENT SOLUTION USING POLYURETHANE PREFABRICATED FLATBED GERAN JKR – UITM (2017-2019)
- 6) ASIA UNINET GRANT – (2020-2022)

3. LISTS OF AWARDS

1)	GOLD MEDAL IID UITM 2010 SE	- 2010
2)	BRONZE MEDAL IID UITM 2010 SE	- 2010
3)	SILVER MEDAL IID FCE (PRODUCT 1)	- 2010
4)	SILVER MEDAL IID FCE (PRODUCT 1)	- 2010
5)	SILVER MEDAL MALAYSIAN TECHNOLOGY EXPO	- 2011
6)	SILVER MEDAL INTERNATIONAL TECHNOLOGY EXPO(ITEX)	- 2011
7)	EXCELLENT SERVICE AWARD -UITM	-2012
8)	GOLD MEDAL IIDEA UITM PERLIS	- 2013
9)	BEST MANUSCRIPT PAPER ACCE PHUKET	- 2013
10)	GOLD MEDAL INTERNATIONAL TECHNOLOGY EXPO (ITEX)	- 2014
11)	GOLD MEDAL IIDEX UITM SHAH ALAM	-2015
12)	SILVER MEDAL INTERNATIONAL TECHNOLOGY EXPO (ITEX)	-2015
13)	SILVER MEDAL PECIPTA 2015 (INTERNATIONAL)	-2015
14)	BEST PAPER AWARD INCIEC 2015	-2015
15)	GOLD MEDAL MIIIEX 2016	-2016
16)	GOLD AWARD ACEIC 2017	-2017
17)	IET SPECIAL AWARD	-2017
18)	GOLD MEDAL IIDEX2017	-2017
19)	SILVER MEDAL SEOUL INTERNATIONAL INVENTION FAIR	-2017
20)	EXCELLENT SERVICE AWARD	-2017
21)	SILVER MEDAL INTERNATIONAL TECHNOLOGY EXPO (ITEX)	-2018
22)	GOLD MEDAL INTERNATIONAL TECHNOLOGY EXPO (ITEX)	-2019
23)	SILVER MEDAL INTERNATIONAL TECHNOLOGY EXPO (ITEX)	-2020
24)	BRONZE MEDAL SEOUL INTERNATIONAL INVENTION FAIR	-2020

