Name: Assoc. Prof. Dr. Ir. Ling Jen Hua

List of Research:

Internal Grant

1. Effects of silica fume on the properties of concrete (UCTS/research/1/2016/02)
2. Performance of lightweight cement brick with oil palm EFB fibre (UCTS/research/1/2016/09)
3. Study on desludging frequency on septic tanks at residential and commercial area: a Sibu case study (UCTS/Research/4/2017/05)
4. Behaviour of voided reinforced concrete beam under flexural and shear load (UCTS/Research/2/2018/02)
5. Utilization of palm oil industry by-product in mortar and brick production (UCTS/Research/4/2018/13)
6. Experimental Study of Cement Brick with Expanded Polystyrene and Silica Fume as Partial Replacement Materials (UTS/Research/4/2021/01)
7. Experimental study on the mechanical properties of concrete-filled tube column confined with plastic pipe (UTS/Research/2/2022/15)

List of Publications:

Journal paper

1. Ling Jen Hua, Ahmad Baharuddin Abd. Rahman, Abdul Karim Mirasa, Zuhairi Abd. Hamid, 2008, Performance of CS-sleeve under direct tensile load: Part I - failure modes", Malaysia Journal of Civil Engineering (MJCE), 20(1), pg 89 -106. DOI: https://doi.org/10.11113/mjce.v20.15759
2. Ling Jen Hua, Ahmad Baharuddin Abd. Rahman, Abdul Karim Mirasa, Zuhairi Abd. Hamid, 2008, Performance of CS-sleeve under direct tensile load: Part II - structural performance, Malaysia Journal of Civil Engineering (MJCE), 20(1), pg 107 – 127. DOI: https://doi.org/10.11113/mjce.v20.15760
3. Ahmad Baharuddin Abd. Rahman, Ling Jen Hua, Izni Syahrizal Ibrahim, Zuhairi Abd. Hamid, 2010, Performance of grouted sleeve connectors subjected to incremental tensile loads, Malaysian Construction Research Journal (MCRJ), 6(1), pg 39 – 55.
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7. Ahmad Baharuddin Abd Rahman, Jen Hua Ling, Zuhairi Abd Hamid, Mohd Hanim Osman, Shahrin Mohammad, A Aziz Saim, 2014, Development of splice connections for precast concrete structures, Materials Science and Engineering, 980, pg 132 – 136. https://doi.org/10.4028/www.scientific.net/AMR.980.132
8. Jen Hua Ling, Ahmad Baharuddin Abd. Rahman, Izni Syahrizal Ibrahim, Zuhairi Abdul Hamid, 2016, Tensile capacity of grouted splice sleeves, Engineering Structures, 111, pg 285 -296. https://doi.org/10.1016/j.engstruct.2015.12.023
9. Ling Jen Hua, Sabarudin Mohd, Saiful Azhar Ahmad Tajudin, Syazie Nordzaima Ali Mohamad, Ismail Hj Bakar, Mohd Idrus Mohd Masirin, Adnan Zainorabidin and Ali Abdul-Wadoud Mahmood, 2016. Construction of infrastructure on peat: case studies and lessons learned, MATEC Web of Conferences, 47, pg 03014, 2016. https://doi.org/10.1051/matecconf/20164703014
10. Ali Abdul-Wadoud Mahmood, Sabarudin Mohd, Saiful Azhar Ahmad Tajudin, Ismail Hj Bakar, Mohd Idrus Mohd Masirin, Adnan Zainorabidin, Azrul Zulwali Kifli and Ling Jen Hua, 2016. Construction of buildings on peat: case studies and lessons learned, MATEC Web of Conferences, 47, pg 03013. https://doi.org/10.1051/matecconf/20164703013
11. Jen Hua Ling, Yu Fook Liew, Wen Kam Leong and How Teck Sia, 2017. Modelling the response of Tapered Head Sleeve connection under tensile load using finite element method, Asian Journal of Civil Engineering (BHRC), 18(5), pg 837-852.
12. Ling, Jen Hua, Abd. Rahman, Ahmad Baharuddin, Ibrahim, Izni Syahrizal, Abdul Hamid, Zuhairi, 2017. An experimental study of welded bar sleeve wall panel connection under tensile, shear, and flexural loads, International Journal of Concrete Structures and Materials, 11(3) pg 525–540 https://doi.org/10.1007/s40069-017-0202-y
13. Yong Tat Lim, Jen Hua Ling, 2019, Incorporating Lightweight Materials in Reinforced Concrete Beams and Slabs – A Review, Borneo Journal of Sciences and Technology, 1(2), pg 16-26
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15. Jen Hua Ling, Yong Tat Lim, Wen Kam Leong, Jusli Euniza, How Teck Sia, 2019. Properties of Cement Brick with Partial Replacement of Sand and Cement with Oil Palm Empty Fruit Bunches and Silica Fume, Journal of the Civil Engineering Forum, 5(3), pg 289-300 https://doi.org/10.22146/jcef.47982
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17. Alicia Yik Yee Min, Ling Jen Hua, 2020, Experimental Study on Voided Slab Subjected to Flexural Load, Borneo Journal of Sciences and Technology, 2(1), pg 27-31
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22. Jen Hua Ling, Wen Yue Pao, Wen Kam Leong and How Teck Sia, 2021, Comparison between Modelling and Experimental Behaviour of Reinforced Concrete Beam with Transverse Circular Opening, Borneo Journal of Sciences and Technology, 3(1), pg 07-14 http://doi.org/10.3570/bjost.2021.3.1-02
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Conference paper

1. Ahmad Baharuddin Abd. Rahman, Ling Jen Hua, 2007. Improving the performance of precast concrete beam-to-beam connection with inadequate lap length, Proceeding of National Seminar on Civil Engineering Research (SEPKA), 11-12 Dec, Johor, Malaysia.
2. Ahmad Baharuddin Abd. Rahman, Ling Jen Hua, 2008. Performance of steel end plate precast concrete beam-to-beam connection with inadequate lap length, Proceedings of International Conference on Infrastructure Development (InCID), 7-9 May, Putrajaya, Malaysia.
3. Ahmad Baharuddin Abd. Rahman, Ling Jen Hua, 2008. Behaviour of welded steel end plates lapping system as precast concrete beam-to-beam connection under inadequate lap length, Proceedings of International Seminar on Civil & Infrastructure Engineering (ISCIE'08), 10-12 June, Shah Alam, Malaysia.
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5. Ling Jen Hua, Ahmad Baharuddin Abd. Rahman, Zuhairi Abd. Hamid, 2008. Performance of corrugated aluminium sleeve connector under direct tensile load, Proceedings of 2nd Engineering Conference (EnCon 08), 18-19 Dec, Kuching, Sarawak, Malaysia.
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7. Ling Jen Hua, Ahmad Baharuddin Abd. Rahman, Zuhairi Abd. Hamid, 2009. Failure mode of grout filled gripped semi-cylinder sleeve under tensile load, Proceedings of 10th International Conference on Concrete Engineering and Technology (CONCET 2009), 2-4 Mac, Subang Jaya, Malaysia.
8. Jen-Hua Ling, Ahmad Baharuddin Abd. Rahman, Zuhairi Abd. Hamid, Izni Syahrizal Ibrahim, Abdul Karim Mirasa, 2009. Structural performance of splice connector for precast concrete structures, 7th Asia Pacific Structural Engineering and Construction Conference and 2nd European Asian Civil Engineering Forum (APSEC-EACEF 2009), 4-6 Aug, Pulau Langkawi, Kedah, Malaysia.
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10. Ling Jen Hua, Ahmad Baharuddin Abd. Rahman, Izni Syahrizal Ibrahim, 2010. Tensile performance of grouted mild steel pipe splice connector for precast concrete connection, Proceedings of World Engineering Congress 2010 (WEC 2010), 2nd-5th August, Kuching, Sarawak Malaysia.
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13. Ali Abdul-Wadoud Mahmood, Sabarudin Mohd, Saiful Azhar Ahmad Tajudin, Ismail Hj Bakar, Mohd Idrus Mohd Masirin, Adnan Zainorabidin, Azrul Zulwali Kifli and Ling Jen Hua, 2015. Review on the construction of buildings on peat subgrade presented at the ICONCEES Workshop 2015, The 3rd International Conference on Civil and Environmental Engineering for Sustainability (IConCEES 2015), 1-2 Dec. 2015, Melaka, Malaysia
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15. How Teck Sia, Yong Tat Lim, Mastura Bujang, Jen Hua Ling, 2018. Performance of cement brick containing empty fruit bunches and silica fume, 1st International Conference on Durability of Building and Infrastructures (DuraBI 2018), 10-11 Jan 2018, Miri, Sarawak

Book chapter

1. Ling Jen Hua, Ahmad Baharuddin Abd Rahman, Izni Syahrizal Ibrahim, Zuhairi Abd. Hamid, 2018, Behaviour of grouted splice connections in precast concrete walls subjected to tensile, shear and flexural loads, Chapter 4 of Book “Precast concrete structures beam to column and wall to wall connections”, Construction Research Institute of Malaysia (CREAM) and Lembaga Pembangunan Industri Pembinaan Malaysia (CIDB)