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## **Description of projects:**

The scope of the centre includes concrete mix designs and concrete structural elements which are applicable in the construction industry. In addition to proposing new ingredients for improving mechanical properties of concrete, proposing new construction products such as concrete precast wall and floor falls within the interest of the centre. The state-of-the-art construction methods such as Building Information Modelling (BIM) is part of the vision of the centre.



## **Research Collaborators:**

- [I] Dr Fung Lung Chang (Internal)
- [II] Dr Nurharniza Abdul Rahman (Internal)
- [V] Dr Payam Shafigh (External)  
- University of Malaya

## **Research Grant:**

- [1] INTI Research Grant 2016 INTI-FEQS  
(Dr Fung Lung Chang)
- [2] INTI Research Grant 2015 INTI-FEQS  
(Dr Panjehpour)

## **Selected Publications/IPs:**

- [1] Panjehpour, Drone integration with BIM: A review. *Current Trends in Civil & Structural Engineering*. **2019**; 3(1), Article ID:000551- US
- [2] S N Baskara et. al., Influence of pavement condition towards accident number on Malaysian Highway. *IOP Conf. Series: Earth and Environmental Science* 220-**2019**-012008. doi:10.1088/1755-1315/220/1/012008 – UK

[3] Panjehpour, Building Information Modelling. Current Trends in Civil & Structural Engineering. **2019**; 2(2), Article ID: 000531 - US

[4] Patent filed by Panjehpour- No PI 2017001959, Filing Date: 29 December (2017), Invention: A new design of precast wall and floor panels using ultra high performance concrete

[5] Yaacob, Haryati & Chang, Fung-Lung & Putra Jaya, Ramadhansyah & Hainin, Mohd Rosli & A Rashid, Ahmad Safuan & Hassan, Norhidayah. (2018). Assessing the Bond Strength of Hot Mix Asphalt Pavement for Wearing and Binder Courses. International Journal of Technology. 9. 925. 10.14716/ijtech.v9i5.2193.

[6] Low, W.P., Din, M.F.M., Chang, F.L., Moideen, S.N.F.B. and Lee, Y.Y., 2018. Empirical models of kinetic rate for river treatment analysis of cellulosic materials. Journal of Water Process Engineering, 23, pp.257-264.

[7] Fung-Lung, Chang and Wen-Pei, Low and Meng-Jie, Teo and Hong-Aik, Lauw (2018) Performance of Pervious Concrete Containing Kenaf (*Hibiscus cannabinus* L.) Fibres. INTI Journal, 1 (2). ISSN e2600-7920.

[8] Panjehpour, Eric Woo and Deepak (2018). Structural insulated panels: State-of-the-Art. Trends in Civil Engineering and Architecture, Vol 3(1), MSID000151 (U.S.)

[9] Panjehpour, Victor (2018). A comparison on shear performance of pad foundation using BS8110, EC2 and ACI 318. INTI Journal, Vol. 1(2), eISSN:2600-7920 (Malaysia).

[10] F.L. Chang, W.P. Low, M.J. Teo, and H.W. Lauw. (2018). Performance of Pervious Concrete Containing Kenaf (*Hibiscus cannabinus* L.) Fibres. *INTI Journal*, Vol. 1(2), eISSN:2600-7920 (Malaysia).

[11] Panjehpour, Nima Farzadnia (2016). Behavior of high-strength concrete cylinders repaired with CFRP sheets. *Journal of Civil Engineering and Management*, Vol 22(1), PP56-64 (Europe- Lithuania).