



# INNOVATE JOHOR 2019

## Innovation towards sustainable entrepreneurship

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### DATE

30 SEP - 3 OCT 2019

### TIME

8.00 AM - 17.00 PM

### VENUE

DEWAN SULTAN ISKANDAR,  
UTM JOHOR BAHRU



## About

The Johor Innovate Program is an annual university research event organized by UTM in collaboration with the Johor State Government. Innovate Johor 2019 features the theme “Innovation Towards Sustainable Entrepreneurship’. The program also involves government and private agencies throughout the state of Johor, industries, HEIs, secondary and lower schools around Johor.



## Trend

The current trend for Innovate Johor 2019 is ‘sustainability which is by the theme, “Innovation Towards Sustainable Entrepreneurship.



## Content

### 1. Palf Brick

PALF BRICK is an un-burnt brick with clayey soils and pineapple leaf fibers. An Eco-friendly construction material. The purpose is to improve thermal resistance, thus reduced the energy consumption due to active cooling system in a building.



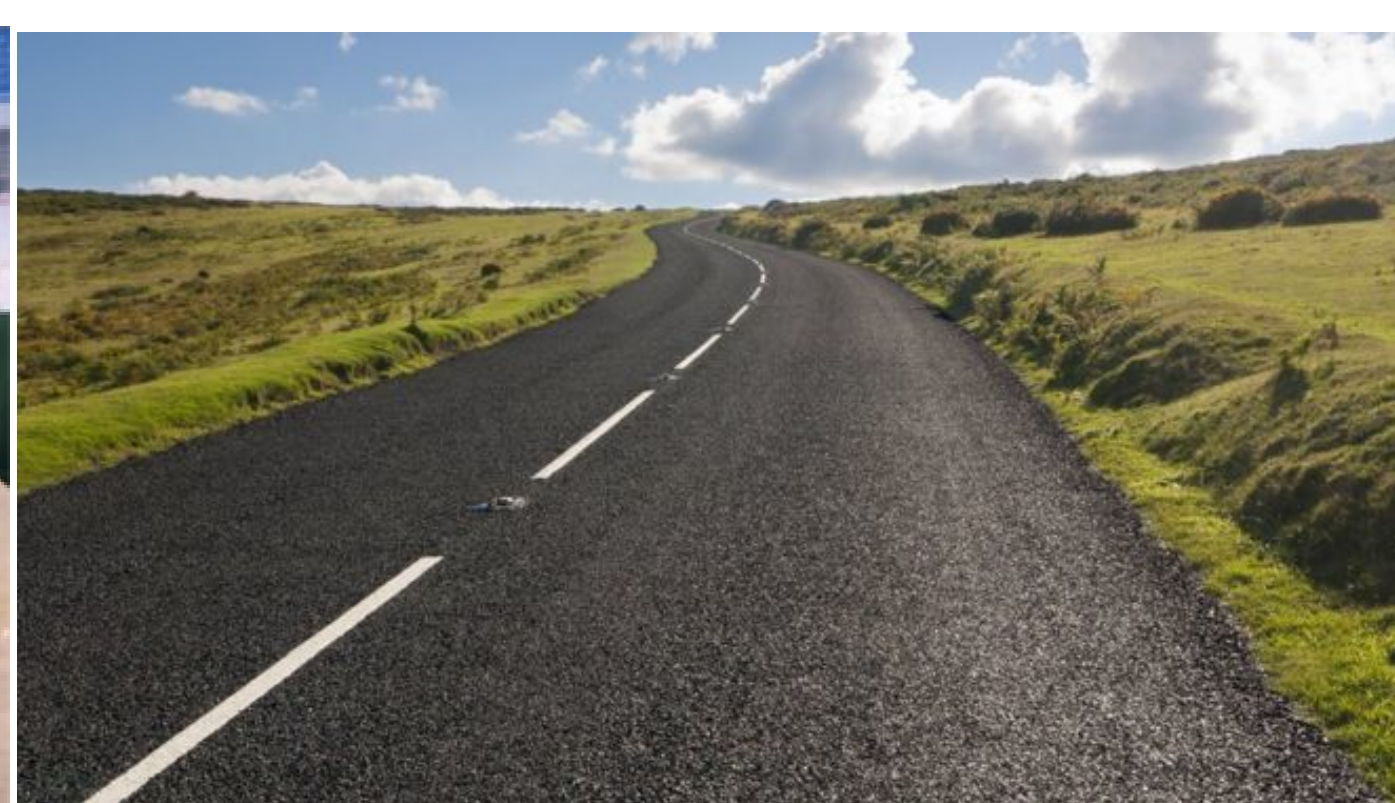
*Palf Brick Stack*

### 2. Enhanced-Polyurethane (I-PU)

The idea is for the purpose of ground improvement and reinforcement. I-PU contains SiO<sub>2</sub> reinforcing filler in addition to the polyol and isocyanate usually use to made PU. The product is stronger, more durable and as well superior thermal stability. I-PU chemically inert after harden hence Eco-friendly.



*I-PU*



*One of are applicable of I-PU*



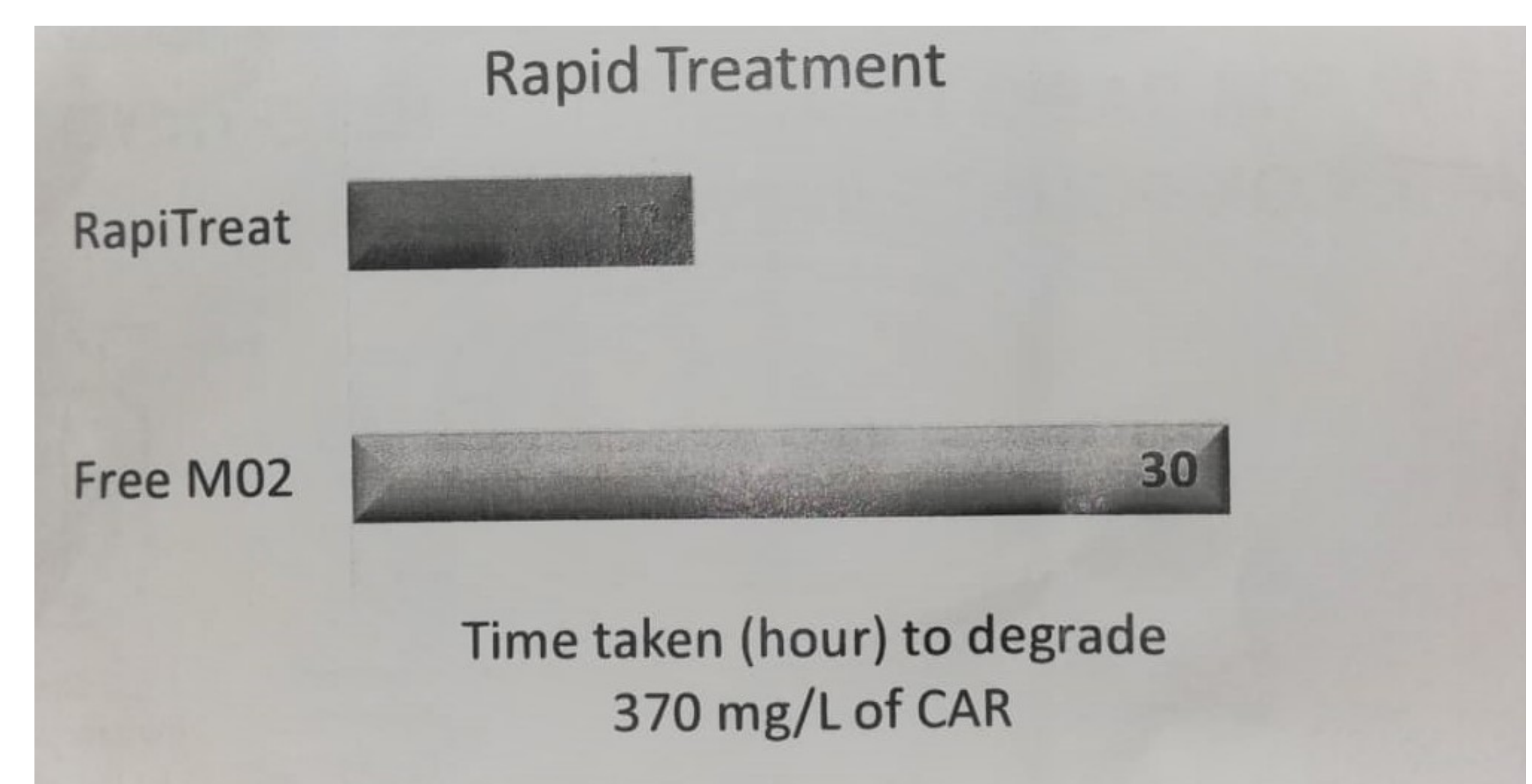
## Reflection

An an idea of innovation base on the theme sustainability is important for us to overcome the future problem. The idea in creating a solution and a substitute for Eco-friendly purpose is important in now days. In fact, innovation and sustainability should go hand by hand in creating a better world and healthy environment.

### 3. Rapitreat Beads M2

RapiTreats beads M2 provides a robust bio remediation system for treating hetero cyclic aromatic hydrocarbon (HAHs) in water source.

Home grown technology of effective microorganisms (EM) immobilization. Locally isolated high performance T.profundimaris M02 strain with multiple hydrocarbon degeneration ability.



*One of the Benefits*

## Task of each member

- Syafiq - Interview, Get content
- Manfred - Idea Listing, summarize content
- Zhaosong - Poster Ideas, Photographer
- Arinie - Poster Design, Interview