

Innovate Johor an annual public event lead by UTM Research Management Center (RMC) under the supervision of the UTM Deputy Vice Chancellor of Research and Innovation within Johor especially those are from UTM itself. In 2019, Innovate Johor was held on 30 Sep–3 Oct at Dewan Sultan Iskandar, UTM, Johor Bahru.



BOOTH 1: AUTOMATED PHOTORESPONSE FOR SEMICONDUCTOR PHOTOCATALYTIC MONOLITH REACTOR TO PRODUCE FUEL (PI2018700691)

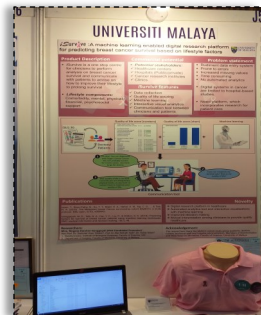
This automated photoresponse system was chosen as it a sustainable CO₂ photocatalytic reduction system. It consumes greenhouse gases and utilize biomass waste to produce methanol for fuel and biodiesel synthesis. Thus dependability on petrochemical product.

Potential Approach towards Society: Low cost feedstock from abundant greenhouse gases give extra economic values to be promoted. High photocatalytic performance under mild operating condition. Stable semiconductor I-V measurement using automated system.

BOOTH 2: GREEN WASTE CONVERSION INTO ORGANIC FERTILIZER USING SUBCRITICAL WATER TECHNOLOGY

This innovation capable reduces the dependency on chemical fertilizer and also helps in boosting both nutrients efficiency and organic matter content in the soil. Lastly it retains moisture in soil to make crops to be more resilient and drought-resistant.

Benefits Approach towards Society: High quality and effective organic fertilizer. Low production and cost and sustainable feedstock. Short production times (1 hour per cycle. Safe environment friendly.



BOOTH 3: MALAYSIAN BREAST CANCER SURVIVORSHIP COHORT(MyBCC) STUDY NUTRITION & DIET FACT SHEET

A machine learning enabled digital research platform for predicting breast cancer survival based on lifestyle factors. Survival is a one stop centre for clinicians to perform analysis on breast cancer survival and communicate with patients to advise on how to improve their lifestyle to proving survival.

Commercial Potential towards Society: Healthcare centers, Hospitals (Private/Public), Cancer Research Institutes and Clinics.

TRENDS IN INNOVATE JOHOR 2019

Industrial Exhibition– Innovate Johor 2019 promotes research culture and data processing to provide a pragmatic ICT facility. As the world is undergoing Industry Revolution 4.0 , most of the fields are changing towards industry-based Technology is applied during the task execution. The fields involved are health sciences, ecological environment protection , energy conservation and others.

⇒ REFLECTION

We as a human need an improvised system as a solution to our problem in life. Therefore, innovation is an essential criteria in making use of the current daily necessities around us to create a better technology system in order to improve human life. After taking a tour in Innovate Johor Exhibition 2019, we obtained the opportunities to explore different innovation ideas in different fields such as technology, health, environment and education. This give us an insight that we should always think of how to bring more benefits to human life by merging the knowledge learnt and the updating technology. Also, contributions to the society are also one of the main purpose innovation used in human life. Innovation also helps in effective financial improvement in a country and thus enhance the level of living completeness.