

MORE SUCCESSFUL FEATS BY UMP UNDERGRADS AT THE INTERNATIONAL SCENE

By: Abdul Rahman Ahmad

Six Universiti Malaysia Pahang (UMP) undergraduates did the university proud when they won three gold medals, three silver medals and one special award at the Kaohsiung International Invention and Design Expo 2015 held from December 4-6, 2015 in Kaohsiung, Taiwan.

Their research projects had already won gold medals in the Malaysia International Engineering Invention and Innovation Exhibition 2015 (i-ENVEX 2015) held in Universiti Malaysia Perlis in April 2015.

The 100% achievement was the second time in the year after their win in International Warsaw Invention Show 2015 held at Warsaw, Poland.

Twenty countries took part such as China, Canada, Korea and Romania and more than 300 entries were submitted.

The winners and their projects are listed as below:



NO	NAME	TITLE	ACHIEVEMENT	DESCRIPTION
1	Chan Han Jie Faculty of Chemical and Natural Resource Engineering	Synthesis And Characterisation of EFB Clinker Supported Ni And Co Catalysis For Methane Dry Reforming	Gold and WIPPA Grand Award	The fusion of methane and carbon dioxide, using a catalyst based on Ni and Co, which is reinforced by oil palm empty fruit bunch clinker through wet impregnation method and 20-80 formula.
2	Farah Ayuni binti Fauzi Faculty of Mechanical Engineering	Joint Angle Measurement Device	Gold	This joint angle measurement device can display patient's joint data movement on an android mobile device via the Bluetooth module. This device can display real-time data of the patient's joint movement while walking and standing.
3	Mahadi bin Bahari Faculty of Chemical and Natural Resource Engineering	Syngas Production From Co2 Reforming of Methane Over Supported Ni Catalyst	Gold	The use of methane, CH ₄ , and carbon dioxide gas, Co ₂ , in producing ratio product hydrogen gas, H ₂ , and carbon monoxide, Co, used as raw material in fishcer-tropsch process
4	Sathis A/L Vatumalai Faculty of Manufacturing Engineering	2 Degree of Freedom of Solar Tracking System for Optimum Solar Cell Implementation using DC Boost Converter Controlled by Fuzzy Logic Controller	Silver	Tracking and optimising solar panel power by designing and implementing the fuzzy logic controller using micro controller to control the solar panel output voltage.
5	Mohamed Ashraf bin Mohamed Noor Faculty of Electrical and Electronic Engineering	Internet Gardening System	Silver	Using the concept of Internet of Things, a system that is able to interact via the internet network is created. This system can gauge a garden's perimeter such as temperature, air humidity, soil humidity and lighting level.
6	Suguna A/P Jeganathan Faculty of Chemical and Natural Resource Engineering	Formulation of Hair Straightening Cream From Keratin Protein	Silver	Keratin extracted from chicken feathers is produced in cream form to straighten hair.