Seven Students from Department of Mechanical and Manufacturing Engineering Won Special Awards from China Association of Invention and Seven Medals at i-Envex 2016, Unimap, Perlis

Figure 1 Participants from Unimas posing for their group picture upon receiving their awards at Universiti Malaysia Perlis, Unimap, Pauh Putra main campus during International Engineering Invention and Innovation Exhibition, (i-Envex 2016), from left: Nordin (Silver), Nurul Aufa (Gold), Valerie Semunau (Bronze), Syafina (Bronze), Norliza (Silver) and Saad Salahuddin (Gold). Not in the picture: Siti Nur Azizah (Gold and Special Award from China Association of Invention)

KOTA SAMARAHAN : Seven final year students from Department of Mechanical and Manufacturing Engineering brings honour to UNIMAS when they victoriously bring seven medals and one special award at International Engineering Invention and Innovation Exhibition (i-ENVEX 2016) held at UniMAP, Universiti Malaysia Perlis from 8-10 April 2016. i-ENVEX is an annual exhibition that involves not only the participation of various

level of education from local schools, polytechnics, colleges and universities, but also participations from numerous countries such as Egypt, Korea, Indonesia, Iran, Iraq, Cambodia and Philippines. This international event is a joint collaboration between Malaysian Ministry of Science, Technology and Innovation Malaysia (MOSTI), Malaysian Ministry of Education (MoE), ENVEX Young Research Club (EYReC) and the Malaysian Invention and Design Society (MINDS). i-ENVEX is also well known for its association with international agencies such as World Invention Intellectual Property Associations (WIIPA) and International Federation of Inventors' Associations (IFIA).

This year participation involves a total of seven projects and the projects were presented during the exhibition. Siti Nur Azizah binti Amran with project title of 'Biomimetic Shark Skin for Shipping Industries' grabbed one Gold medal and a Special Award from China Association of Invention (CAI). Another two students; Saad Salahuddin bin Musa and Nurul Aufa binti Ab Majid also won Gold award with their project title of 'HVAC System with Modified Turning Vanes' and 'Active Chilled Beams with Perforated Honeycomb Structures' respectively. Meanwhile, 'Improved Stiffness of Modified Spiral Fluid Dynamic Bearing Design for High Precision Engineering Equipment' and 'High Quality Water Pump Mold Design with Low Porosity' by Norliza binti Marusman and Nordin bin Abu Bakar respectively won Silver at the exhibition. In addition, Syafina binti Zainal and Valerie Semunau anak Jeremaiah with project title of 'Simple but Yet Effective Self-sustained Auto Cleansing Solar Panel for Rural Areas' and 'Superhydrophobic Features for Solar Panel' respectively won Bronze awards.

With a theme of 'Engineers for Society', this exhibition has attracts more than 400 products and innovation showcased and more than 600 participants has participated in these three days exhibition. This exhibition has encouraged students to think out of the box and create an innovation that will benefit the society and engineering field. Students developed their confidence during the presentation to the juries and also increase their competency with local and international participants. The participants would also wish to thank Ministry of Education for the grant funding, Faculty of Engineering, Unimas and Universiti Malaysia Sarawak for their continuous financial and/or moral supports towards the success of this year's participation.

Researchers Name	**Project Title**	**Awards Granted**
Siti Nur Azizah binti Amran; Ir. Dr. Mohd Danial Ibrahim; Dr Azham bin Zulkarnain; Muhd Zaidi Mohtar; Mohd Rahmat A. Rahman; Yana Shaheera Yunos; Wong Lee Kwang	Biomimetic Shark Skin For Shipping Industries	Gold China Association Of Invention Award (Cai) (Special Award)
Saad Salahuddin bin Musa; Ir. Dr. Mohd Danial Ibrahim; Christopher Jantai Anak Boniface; Muhd Zaidi	HVAC System With Modified Turning Vanes	Gold

Mohtar; Mohd Rahmat A. Rahman; Yana Shaheera Yunos; Wong Lee Kwang		
Nurul Aufa binti Ab Majid; Ir. Dr. Mohd Danial Ibrahim; Christopher Jantai Anak Boniface; Muhd Zaidi Mohtar; Mohd Rahmat A. Rahman; Yana Shaheera Yunos; Wong Lee Kwang	Active Chilled Beams With Perforated Honeycomb Structures	Gold
Norliza binti Marusman; Ir. Dr. Mohd Danial Ibrahim; Dr. Yuta Sunami; Mohd Rahmat A. Rahman; Yana Shaheera Yunos; Wong Lee Kwang	Improved Stiffness Of Modified Spiral Fluid Dynamic Bearing Design For High Precision Engineering Equipment	Silver
Nordin bin Abu Bakar; Ir. Dr. Mohd Danial Ibrahim; Mr Rosli Mohamad; Muhd Zaidi Mohtar; Mohd Rahmat A. Rahman; Yana Shaheera Yunos; Wong Lee Kwang	High Quality Water Pump Mold Design With Low Porosity	Silver
Syafina binti Zainal; Mr Muhamad Fadzli b Ashari; Ir. Dr. Mohd Danial Ibrahim; Assoc. Prof. Dr Al-Khalid Hj Othman; Mohd Rahmat A. Rahman; Yana Shaheera Yunos; Wong Lee Kwang	Simple But Yet Effective Self-Sustained Auto Cleansing Solar Panel For Rural Areas	Bronze
Valerie Semunau Anak Jeremaiah; Dr Aidil Azli Alias; Ir. Dr. Mohd Danial Ibrahim; Assoc. Prof. Dr Al-Khalid Hj Othman; Mohd Rahmat A. Rahman; Yana Shaheera Yunos; Wong Lee Kwang	Superhydrophobic Features For Solar Panel	Bronze

Prepared by Nurul Aufa binti Ab Majid