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## GOLD MEDAL AT MALAYSIA TECHNOLOGY EXPO 2016

18th to 20th February 2016 - One of AMMP Centre researchers, Dr. Noor Azizi Bin Mardi, and his team were selected to represent University Malaya in the prestigious event. His innovation had won a gold medal for the project of 'Development of a New CNC Gantry Machine with Double Motion Feed Drive System'. Congratulations to Dr. Azizi and his team.

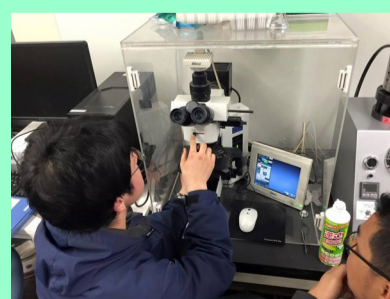
## FACULTY OF ENGINEERING - TEAM BUILDING @ KEM BTN, ULU SEPRI NEGERI SEMBILAN

18th to 20th February 2016 - AMMP academic members from the Faculty of Engineering, participated in a teambuilding camp in Ulu Sepri, Negeri Sembilan. The three days program was sponsored by the Prime Minister's Office and handled by experienced motivators and facilitators from the Human Capital Development Department of the National Civics Bureau (Biro Tatanegara). The three days were packed with exciting and challenging activities such as Explorace, group sessions, Islamic talks/tazkirah, and evening physical exercises. The highlight of the program was the gotong-royong or 'merewang' slot where various groups were tasked with preparing the lunch for all the participants. The event was graced by the Vice Chancellor of Universiti of Malaya, Prof. Dato' Dr. Mohd Amin Bin Jalaludin and the Director-General of National Civics Bureau (BTN) YBhg. Datuk Haji Ibrahim bin Saad.



## UM-JWRI COLLABORATION ON FRICTION STIR WELDING OF DIS- SIMILAR MATERIALS.

7th to 11th March 2016 - Dissimilar material joining will form the core of future automotive lightweight materials. The main advantage of using dissimilar materials in welding structure is that we can take the advantage of the properties of both the materials. A team from AMMP Centre comprised of Dr Ridha, Dr Farazila and Mr Fadzil spent a weeklong stay in the laboratories of Joining and Welding Research Institute (JWRI), Osaka University Japan. The research trip was part of the MoA between AMMP Centre and JWRI for studies on Friction Stir Welding (FSW) Processes. The team has successfully conducted experiments on the effect of powder addition to the joinability of dissimilar metals using FSW techniques. Using custom made machines available in the labs of JWRI, our researchers had joined metals pair such as magnesium to steel and aluminium with stainless steel. General observations have shown that the joints produced were of good quality having sufficient mechanical strength. Further analysis such as SEM microstructure evaluations will be conducted in University of Malaya.





## RESEARCH TRIP TO UNIVERSITI TEKNOLOGI PETRONAS

17th March 2016 - A team from AMMP comprised of Dr Farazila, Dr Ridha and Mr Fadzil visited Universiti Teknologi Petronas (UTP) in Sri Iskandar, Perak as part of the network and collaboration activities in Friction Stir Welding research. Associate Professor Dr Mokhtar Awang and his researchers from the Department of Mechanical Engineering gave a demonstration of Friction Stir Welding processes for welding aluminium tubes and plates using a dedicated FSW machine. Representatives from Universiti Malaysia Pahang (UMP), Associate Professor Mahadzir Ishak, and Mr Azman Ismail from UniKL MIMET were also present during the event. In addition to the tour of the FSW facilities, the group discussed on possible research collaborations between AMMP Centre, UTP, UMP and UniKL.

## KNOWLEDGE TRANSFER PROGRAM (KTP) PROJECT AWARD

30th March 2016 - Congratulations to Dr Bushroa Abd Razak, one of AMMP Centre's researcher, on winning the best KTP project for the year 2015. The title of her project was 'An Energy Star Physical Vapour Deposition (PVD) Machine'. The event, Majlis Anugerah Jalinan Masyarakat Universiti Malaya, was organized by UMCares and it was held at Dewan Banquet, Rumah Kelab Persatuan Alumni Universiti Malaya (PAUM). The Vice Chancellor of University of Malaya, Prof Dato' Dr Mohd Amin bin Jalaluddin, was one of the guest of honor and the ceremony was also attended by all KTP and Community Engagement grant holders from all faculties in University of Malaya.



The AMMP Centre was established in 2002 with the aim of strengthening research activities in advanced manufacturing and material processes. The team has evolved from a small discussion platform of like-minded researchers to a fully operational research and consultation group in University of Malaya. Throughout the years, AMMP Centre has secured substantial research funding and commercialisation grants from both and international sources. In addition, the Centre has completed a number of consultation work with the industry in developing customised apparatus and solutions for their needs.

The AMMP Bulletin is produced periodically. It is distributed among lecturers, students and staff of University of Malaya. By following our monthly bulletin, you will be kept up to date with the latest of AMMP Centre news and activities.

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